



GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, P. O. Box 3070
Garden Grove, CA 92842 (714) 741-5600

FINAL NOTICE AND ORDER OF THE FIRE CHIEF

Date 6/25/14

Address of violation(s): 7511 Chapman

Insp. No 450

Occupant or DBA: H & J Auto Repair

Business Owner Information:

Building Owner Information:

Owner: Henry Wang

Owner: _____

Address: _____

Address: _____

City: _____

City: _____

Phone: _____ Zip: _____

Phone: _____ Zip: _____

A fire safety inspection at the above-named occupancy revealed violation(s) of the California Fire Code. You were provided written notification of the violation(s) and a reinspection was scheduled for 6/24/2014.

Upon reinspection, the following violation(s) was/were found to be uncorrected:

Failure to resubmit electronic HMBP on www.resubmit.orgov.com
- Need to resubmit w/ corrections

Pursuant to Section 110.4 of the 2013 California Fire Code as adopted by Section 18.04.010 of the Garden Grove Municipal Code, you are hereby ordered to make all corrections as listed.

A FINAL reinspection will be made on July 23, 2014. Failure to comply with all items of this order listed above constitutes a criminal offense and may subject the violator to criminal prosecution, administrative fines in an amount up to \$1,000 per violation and/or other enforcement actions as available.

S. Soltis 3303
Inspector

Condition upon Final reinspection: _____

Inspector Signature: _____ Date: _____

Administrative Citation issued on _____



GARDEN GROVE FIRE DEPARTMENT
Life Safety & Hazardous Materials Disclosure Program
 11301 Acacia Parkway, Garden Grove, CA 92842
 Bus 714-741-5600 Fax 714-741-5640

File # 450
 Fire District 2215
 Inspector FPB Shift N
 Next Insp 9 / 2014

Occupant or DBA H&J AUTO REPAIR Business Tel 714 890-1336
 Address 7511 CHAPMAN Ave Suite _____ Zip 92841
 Business Owner HENRY WANG Tel _____
 Emergency Contact Janet Chen 714-725-4253⁽¹⁾ 714-968-8993⁽²⁾ Tel _____
 Group H4 Load _____ Sprinklers F/P/N 5 yr. Cert. / Haz Mat

Fire Permits 491011 HOT WORK - welding and cutting / open flame, 801031 HAZARDOUS MATERIALS - use, handling or storage, 291021 MOTOR VEHICLE REPAIR / SERVICING.

An inspection at the above location/occupancy revealed the following violation(s) :

ASSEMBLY OCCUPANCIES

- Post maximum occupancy load sign (CFC 1004.3)
- Remove combustibile decorative material (CFC 807.1.2)
- Remove storage under stairway (CFC 315.3.2)

SIGNS

- Provide address visible from the street (CFC 505.1)
- Provide hazardous materials warning signs (CFC 2703.5)

EXITS

- Provide/maintain approved panic hardware (CFC 1008.1.10)
- Remove locks, chains, bolts or bars from exit door (CFC 1008.1.9)
- Remove exit obstruction (CFC 1003.6)
- Provide/maintain illuminated exit sign(s) (CFC 1011.1)

ACCESS

- Provide outside Knox Box (CFC 506.1)
- Remove obstructions to fire apparatus access (CFC 503.4)

FIRE PROTECTION EQUIPMENT AND SYSTEMS

- Provide ___ extinguishers ___2A10BC ___40BC ___K (CFC 906.1)
- Service and tag extinguisher(s) (CFC 901.6)
- Hang extinguisher(s) 3.5'-5' from floor (CFC 906.9)
- Clean filters, ducts , hood above cooking surface (CFC 904.1)
- Service auto-extinguishing system semi-annually (CFC 904.11.6.2)
- 5 yr certification on sprinkler/standpipe system (Title 19, Sect. 904)

MISCELLANEOUS

- Lower storage 18" below sprinklers or 2' from ceiling (CFC 315.3.1)
- Secure compressed gas cylinders (CFC 5303.5.3)
- Post Business License Fire Department permit (CFC 105.3.5)
- NO VIOLATIONS

ADDITIONAL VIOLATIONS AND/OR NOTES

- Used oily rag container must have a self closing lid

Business representative signature X Date 5/27/14
 Inspector Name/ ID # S. Soltis 8303 Date 5/27/14
 Cleared / / Mailback card due / / Re-inspection date 6/24/14 Final Notice / /

ELECTRICAL SAFETY PRE-CAUTIONS

- Discontinue use of extension cords (CFC 605.5)
- Keep 30" clear for access in front of electrical panel (CFC 605.3)
- Provide/replace electrical Cover Socket Power Strip (CFC 605.1)

HAZ-MAT SAFETY PRE-CAUTIONS

- Provide approved cabinet if more than 10 gal. flammable liquids (CFC 5704.3.4.4)
- Provide approved safety container(s) for flammable liquids (CFC 5704.3.1)

HAZARDOUS MATERIALS DISCLOSURE

(HSC CHAPTER 6.95 Section 25404, 25500 - 25520)

- Failure to implement and/or electronically submit a HMBP www.esubmit.ocgov.com Need to resubmit w/ corrections.
- Chemical inventory is incomplete and/or requires updating
- The Emergency Response Plan is inadequate and/or does not adequately address Notification, Mitigation, Evacuation and/or Employee Training
- Site Map is incomplete or insufficient
- Failure to report a change in business or chemical inventory within 30 days of the following :
 - 100% or more increase in the quantity of a disclosed material
 - Addition of a previously undisclosed material
 - Change of business name and owner
- Failure to report a release or threatened release
- Failure to submit annual certification
- NO VIOLATIONS
- MINOR VIOLATION
- CLASS II VIOLATION
- CLASS I VIOLATION



GARDEN GROVE FIRE DEPARTMENT

Life Safety & Hazardous Materials Disclosure Program

11301 Acacia Parkway, Garden Grove, CA 92842

Bus 714-741-5600 Fax 714-741-5640

File # 450

Fire District 2215

Inspector _____

Next. Insp 9/2013

Occupant or DBA H + J Auto Repair

Bus Tel _____

Address 7511 Chapman Ave

Suite _____

Zip 92841

Business Owner Hansy Wang

Tel (714) 890-1336

Emergency Contact _____

Tel _____

Group _____ Load _____ Sprinklers F/P/N _____ 5-Year Cert _____ / _____ Haz-Mat

Fire Permits: Hot Work, Haz Mat, Motor Vehicle Repair

An inspection at the above location/occupancy revealed the following violation(s):

ASSEMBLY OCCUPANCIES

- Post maximum occupancy load sign (CFC 1004.3)
- Remove combustible decorative material (CFC 807.1.2)
- Remove storage under stairway (CFC 315.2.4)

SIGNS

- Provide address visible from the street (CFC 505.1)
- Provide hazardous materials warning signs (CFC 2703.5)

EXITS

- Provide approved panic hardware (CFC 1008.1.10)
- Remove locks, chains, bolts bars from exit doors (CFC 1008.1.9)
- Remove exit obstruction (CFC 1003.6)
- Provide illuminated exit sign(s) (CFC 1011.1)

ACCESS

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- Remove obstructions to fire apparatus access (CFC 503.4)

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- Provide ___ extinguishers 2A10BC 40BC K (CFC 906.1)
- Service and tag extinguisher(s) (CFC 901.6)
- Hang extinguisher(s) 3.5'-5' from floor (CFC 906.9)
- Clean filters, ducts, hood above cooking surface (CFC 904.1)
- Service auto-extinguishing system semi-annually (CFC 904.11.6.2)
- 5 yr. certification on sprinkler/standpipe system (Title 14, Sect. 904)

MISCELLANEOUS

- Lower storage 18" below sprinklers OR 2' from ceiling (CFC 315.2.1)
- Secure compressed gas cylinders (CFC 3003.5.3)
- Post Business License Fire Dept. Permit (CFC 105.3.5)

NO VIOLATIONS

ADDITIONAL VIOLATIONS AND/ OR NOTES: _____

ELECTRICAL SAFETY PRECAUTIONS

- Discontinue use of extension cords (CFC 605.5)
- Keep 30" clear for access in front of electrical panel (CFC 605.3)
- Provide/replace Electrical Cover Socket Power strip (CFC 605.1)

HAZ-MAT SAFETY PRECAUTIONS

- Provide approved cabinet if more than 10 gal. flammable liquids (CFC 3404.3.4.3)
- Provide approved safety container(s) for flammable liquids (CFC 3404.3.1)

HAZARDOUS MATERIALS DISCLOSURE

(HSC CHAPTER 6.95 Section 25404, 25500 - 25520)

- Failure to implement and/or electronically submit a HMBP www.esubmit.ocgov.com
 - Chemical inventory is incomplete and/or requires updating
 - The Emergency Response Plan is inadequate and/or does not adequately address Notification, Mitigation, Evacuation, and/or Employee Training
 - Site Map is incomplete or insufficient
 - Failure to report a change in business or chemical inventory within 30 days of the following:
 - 100% or more increase in the quantity of a disclosed material
 - Addition of a previously undisclosed material
 - Change of business name or owner
 - Failure to report a release or threatened release
 - Failure to submit annual certification
- MINOR VIOLATION
 CLASS I VIOLATION
 CLASS II VIOLATION
- NO VIOLATIONS

Business Representative Signature: _____

Date: _____

Inspector Name/ID#: Whittaker 9461

Date: 7/29/13

GARDEN GROVE



FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE PROGRAM

REPORTING FORMS PACKET

SHORT VERSION

FOR OFFICIAL USE ONLY	
FACILITY ID NO.	<u>450</u>
BUSINESS NAME	<u>H+J Auto Repair Inc</u>
BUSINESS ADDRESS	<u>7511 Chapman Ave</u>
APPROVED BY	<u>G</u> DATE <u>12/2011</u>
NEW BUSINESS	<input type="checkbox"/> YES <input type="checkbox"/> NO UPDATE _____
PICK	<input type="checkbox"/> 4D <input type="checkbox"/> BUSLIST <input type="checkbox"/> CALARP: <input type="checkbox"/> CUPA: <input type="checkbox"/> GIS <input type="checkbox"/>
FEE	_____



CITY OF GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636

FORM 1

Hazardous Materials Business Information Form

Page ___ of ___ 3

BUSINESS INFORMATION

FACILITY # (Supplied by CGFD)	3 0 0 3 5	BEGINNING DATE	1	ENDING DATE	2
BUSINESS NAME	H & J Auto Repair Inc			BUSINESS PHONE	5
BUSINESS SITE ADDRESS	7511 Chapman Ave				6
CITY	GARDEN GROVE	STATE	7 CA	ZIP	92841
DUN & BRADSTREET	10	SIC CODE (4 DIGIT #)	11	FIRE DISTRICT	12
COUNTY	ORANGE				13
BUSINESS OPERATOR NAME	Henry & Janet Wang			OPERATOR'S PHONE	15
				714-968-8993	

BUSINESS OWNER

OWNER NAME	Henry Wang / Janet Chen			OWNER PHONE	17
OWNER MAILING ADDRESS	[Redacted]				18
CITY	[Redacted]	STATE	20 CA	ZIP	92708

ENVIRONMENTAL CONTACT

CONTACT NAME	Henry Wang / Janet Chen				22
CONTACT MAILING ADDRESS	7511 Chapman Ave G				24
CITY	Garden Grove, CA	STATE	26 CA	ZIP	92841

PRIMARY

EMERGENCY CONTACTS

SECONDARY

NAME	28 Henry Wang	NAME	33 Janet Chen
TITLE	29 CEO	TITLE	34 CFO
BUSINESS PHONE	30 714-890-1336 (w)	BUSINESS PHONE	35 714-890-1336 (w)
24-HR. PHONE	31 [Redacted] (cell)	24-HR. PHONE	36 [Redacted]
PAGER #	32 [Redacted] (Home)	PAGER #	37 [Redacted]

NAL LOCALLY COLLECTED II

DESCRIBE THE TYPE OF BUSINESS OPERATION	38 Auto Repair shop	TOTAL # OF EMPLOYEES	39 6
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)	40 Same as Business	ATTENTION	41
PROPERTY OWNER NAME	42 Henry Wang	ADDRESS	43 Same
		PHONE	44

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	45 [Signature]	DATE	46 7/18/05
NAME OF SIGNER (print)	47 Janet Chen	NAME OF DOCUMENT PREPARER (print)	49 Janet Chen
TITLE OF SIGNER	48 CFO	TITLE OF DOCUMENT PREPARER	50



CITY OF GARDEN GROVE FIRE DEPARTMENT

11301 Acacia Parkway, Garden Grove, CA 92842 (714) 741-5600 (714) 741-5636

FORM 1

Hazardous Materials Business Information Form

Page ___ of ___ 3

BUSINESS INFORMATION

FACILITY # <small>(Supplied by GGFD)</small>	3	0	0	3	5	BEGINNING DATE	1	ENDING DATE	2		
BUSINESS NAME							4	BUSINESS PHONE		5	
BUSINESS SITE ADDRESS										6	
CITY							7	STATE	8	ZIP	9
GARDEN GROVE								CA			
DUN & BRADSTREET					10	SIC CODE (4 DIGIT #)			11	FIRE DISTRICT	12
COUNTY										13	
ORANGE											
BUSINESS OPERATOR NAME							14	OPERATOR'S PHONE			15

BUSINESS OWNER

OWNER NAME							16	OWNER PHONE			17
OWNER MAILING ADDRESS										18	
CITY							19	STATE	20	ZIP	21

ENVIRONMENTAL CONTACT

CONTACT NAME							22	CONTACT PHONE			23
CONTACT MAILING ADDRESS										24	
CITY							25	STATE	26	ZIP	27

PRIMARY

EMERGENCY CONTACTS

SECONDARY

NAME	28	NAME	33
TITLE	29	TITLE	34
BUSINESS PHONE	30	BUSINESS PHONE	35
24-HR. PHONE	31	24-HR. PHONE	36
PAGER #	32	PAGER #	37

ADDITIONAL LOCALLY COLLECTED INFORMATION

DESCRIBE THE TYPE OF BUSINESS OPERATION:							38	TOTAL # OF EMPLOYEES			39
BILLING ADDRESS (IF DIFFERENT FROM ABOVE)							40	ATTENTION			41
PROPERTY OWNER NAME					42	ADDRESS			43	PHONE	44

Certification: Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the information is true, accurate, and complete.

SIGNATURE OF OWNER/OPERATOR/ OR DESIGNATED REPRESENTATIVE							45	DATE			46
<i>[Signature]</i>								10/18/11			
NAME OF SIGNER (print)					47	NAME OF DOCUMENT PREPARER (print)			49		
Janet Chen						Janet Chen					
TITLE OF SIGNER					48	TITLE OF DOCUMENT PREPARER			50		
CFO						CFO					

UNIFIED PROGRAM CONSOLIDATED FORM

FACILITY INFORMATION

BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID#		1. EPA ID # (Hazardous Waste Only)	2.
		Cal 000 21 6834	
BUSINESS NAME (Same as FACILITY NAME or DBA-Doing Business As)			3.
H & J Auto Repair Inc			

II. ACTIVITIES DECLARATION

NOTE: If you check YES to any part of this list, please submit the Business Owner/Operator Identification page (OES Form 2730)

Does your facility...	If Yes, please complete these pages of the UPCF...	
A. HAZARDOUS MATERIALS Have on site (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	4. <input checked="" type="checkbox"/> HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (OES 2731)
B. UNDERGROUND STORAGE TANKS (USTs)		
1. Own or operate underground storage tanks?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	5. <input checked="" type="checkbox"/> UST FACILITY (Formerly SWRCB Form A)
2. Intent to upgrade existing or install new USTs?	<input type="checkbox"/> YES <input type="checkbox"/> NO	6. <input checked="" type="checkbox"/> UST TANK (one page per tank) (Formerly Form B)
3. Need to report closing a UST?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	7. <input checked="" type="checkbox"/> UST FACILITY
C. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs)		
Own or operate ASTs above these thresholds: - any tank capacity is greater than 660 gallons, or - the total aggregate capacity for the entire facility (ASTs, drums and portable containers) greater than 1,320 gallons?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	8. <input checked="" type="checkbox"/> UST TANK (one per tank)
D. HAZARDOUS WASTE		
1. Generate hazardous waste?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	9. <input checked="" type="checkbox"/> UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank) (Formerly Form C)
2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	10. <input checked="" type="checkbox"/> UST TANK (closure portion-one page per tank)
3. Treat hazardous waste on site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	11. <input checked="" type="checkbox"/> NO FORM REQUIRED TO CUPAS
4. Treatment subject to financial assurance requirements (for Permit by Rule and Condition Authorization)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	12. <input checked="" type="checkbox"/> EPA ID NUMBER - provide at the top of this page
5. Consolidate hazardous waste generated at a remove site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	13. <input checked="" type="checkbox"/> RECYCLABLE MATERIALS REPORT (one per recycler)
6. Need to report the closure/removal of a tank that was classified waste and cleaned onsite?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	14. <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - FACILITY (Formerly DTSC Forms 1772)
E. LOCAL REQUIREMENTS		15. <input checked="" type="checkbox"/> ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit) (Formerly DTSC Forms 1772A,B,C,D and L)
(You may also be required to provide additional information by your CUPA or local agency.)		

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF 3)

BUSINESS NAME (4) H E J Auto Repair INC
 CHEMICAL LOCATION (5) 7511 CHAPMAN AV GARDEN GROVE CA 92784
 MAP # (if more than one) (6) GRID # (7)

CHEMICAL NAME (8) Automatic Transmission Fluid TRADE SECRET (11) Y N
 COMMON NAME (9) ATF AHM / *EHS (12) Y N
 CAS # (10) 64742547 *IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS
 FIRE CODE HAZARD CLASSES* (13) NOT CLASSIFIED BY OSHA AS FLAMMABLE

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (18) (18)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) 221 UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (21) 2
 DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (20) 2
 LARGEST CONTAINER (21) 55-100 ANNUAL WASTE AMT (25) 700

STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP.

PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1.	<u>Automatic Transmission Fluid</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>64742887</u>
2.		<input type="checkbox"/> Y <input type="checkbox"/> N	
3.		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION
 *COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION

UN/DOT # 11542 1270
 Refer to shipping papers or MSDS

DOT HAZARD CLASS 3
 Refer to shipping papers or MSDS

UFC HAZARD CLASS COMB LIQ

NFPA 704 HAZARD DIAMOND
 FIRE RED
 HEALTH BLUE
 REACTIVE YELLOW
 SPECIAL HAZARD
 WHITE OX/WX

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED



Material Safety Data Sheet

CHEVRON ATF+3 Automatic Transmission Fluid

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON ATF+3 Automatic Transmission Fluid

PRODUCT NUMBER(S): CPS238200

COMPANY IDENTIFICATION

Chevron Products Company
Global Lubricants
555 Market St.
Room 803
San Francisco, CA 94105-2870

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (900)231-0623 or
(510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (703)527-3887
Emergency Information Centers
are located in U.S.A.
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500
Environmental, Safety, & Health Info: (415) 894-0703
Product Information: (800) 582-3635

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0% CHEVRON ATF+3 Automatic Transmission Fluid

CONTAINING

COMPONENTS	AMOUNT	LIMIT/CTY	AGENCY/TYPE
HYDROTREATED DIST., HVY PARA			
Chemical Name: DISTILLATES, HYDROTREATED HEAVY PARAFFINIC			
CAS64742547	> 80.00%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

ADDITIVES INCLUDING THE FOLLOWING
< 20.00%

SOLVENT NAPHTHA, MED. ALIPHATIC			
Chemical Name: SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC			
CAS64742887	< 4.00%	NONE	NA

N-NONAHE			
Chemical Name: N-NONAHE			
CAS111842	< 0.50%	200 ppr	ACGIH TWA

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m³, the OSHA PEL is 5 mg/m³.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE:

Not expected to cause prolonged or significant eye irritation.

SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

INGESTION:

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil that may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of airborne levels above the recommended exposure limit.

4. FIRST AID MEASURES

EYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.

SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse.

INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.

INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or

combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: 356F (180C) min.

AUTOIGNITION: N/A

FLAMMABILITY LIMITS (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam, Water Fog

NEPA RATINGS: Health 3; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

This material will burn although it is not easily ignited.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur. Combustion may form oxides of calcium and barium.

Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3687

International Collect Calls Accepted

ACCIDENTAL RELEASE MEASURES:

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is normally required. Where splashing is

possible, wear safety glasses with side shields as a good safety practice.

SKIN PROTECTION:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H>

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Liquid.

PH:	NDA
VAPOR PRESSURE:	NA
VAPOR DENSITY (AIR=1):	NA
BOILING POINT:	NDA
FREEZING POINT:	NDA
MELTING POINT:	NA
SOLUBILITY:	Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY:	NDA
DENSITY:	NDA
EVAPORATION RATE:	NA
VISCOSITY:	7.4 cSt @ 100C (min.)
PERCENT VOLATILE (VOL):	NA
FOUR POINT:	-40C (max.)

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

The eye irritation hazard is based on an evaluation of the data for the

components.

SKIN EFFECTS:

The skin irritation hazard is based on an evaluation of the data for the components.

ACUTE ORAL EFFECTS:

The acute oral toxicity is based on an evaluation of the data for the components.

ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on an evaluation of the data for the components.

ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1206). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

This material is not expected to be readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NONE

DOT IDENTIFICATION NUMBER: NONE

DOT PACKING GROUP: N/A

ADDITIONAL INFO: Petroleum Lubricating Oil - Not Hazardous by U.S. DOT.
ADR/RID Hazard class - Not applicable.

15. REGULATORY INFORMATION

SARA 311 CATEGORIES: 1. Immediate (Acute) Health Effects: NO
 2. Delayed (Chronic) Health Effects: NO
 3. Fire Hazard: NO
 4. Sudden Release of Pressure Hazard: NO
 5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=MTE Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

N-NONANE

is found on lists: 02,10,11,13,14,26,
DISTILLATES, HYDROTREATED HEAVY PARAFFINIC
is found on lists: 14,15,17,

EU RISK AND SAFETY STATEMENTS:

May cause long-term adverse effects in the aquatic environment.

NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1988 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:
PETROLEUM OIL

WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;
HMIS RATINGS: Health 1; Flammability 1; Reactivity 0;
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix A Categories	() - Change Has Been Proposed
NDA - No Data Available	NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRCO, P.O. Box 1627, Richmond, CA 94804

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

THIS IS THE LAST PAGE OF THIS MSDS

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF (3)

BUSINESS NAME (4) H & J Auto Repair Inc.
 CHEMICAL LOCATION (5) 7511 CHAPMAN AV GARDEN GROVE CA 92841
 MAP # (if more than one) (6) GRID # (7)

CHEMICAL NAME (8) Helium TRADE SECRET (11) Y N
 COMMON NAME (9) Helium AHM / *EHS (12) Y N
 CAS # (10) 7440-59-7 *IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS
 FIRE CODE HAZARD CLASSES* (13) NON FLAMMABLE GAS INERT

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (15) (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
 STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 217
 DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 100
 LARGEST CONTAINER (21) ANNUAL WASTE AMT (25) 0
 STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP.
 PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT
 STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1.	<u>Simple Asphyxiant</u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u>7440-59-7</u>
2.		<input type="checkbox"/> Y <input type="checkbox"/> N	
3.		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) **ADDITIONAL LOCALLY COLLECTED INFORMATION**
 *COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION

UN/DOT # UN 1046 Refer to shipping papers or MSDS

DOT HAZARD CLASS NON FLAMMABLE GAS Refer to shipping papers or MSDS

UFC HAZARD CLASS INERT GAS

NFPA 704 HAZARD DIAMOND

FIRE RED

HEALTH BLUE

SPECIAL HAZARD

WHITE OX/W.

REACTIVE YELLOW

INERT 2.2

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

PRODUCT NAME Helium	CAS # 7440-59-7
TRADE NAME AND SYNONYMS Helium	DOT I.D. No.: UN 1046
CHEMICAL NAME AND SYNONYMS Helium	DOT Hazard Class: Nonflammable gas
ISSUE DATE AND REVISIONS 25 November 1985	Formula: He
	Chemical Family: Inert gas

HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE EXPOSURE LIMIT Helium is defined as a simple asphyxiant. Oxygen levels should be maintained at greater than 18 molar percent at normal atmospheric pressure which is equivalent to a partial pressure of 135 mm Hg (ACGIH, 1985-86).
SYMPTOMS OF EXPOSURE Effects of exposure to high concentrations so as to displace the oxygen in the air necessary for life are headache, dizziness, labored breathing and eventual unconsciousness. Breathing mixtures of helium with adequate oxygen to support life modifies the voice sound so that it is higher "pitched."
TOXICOLOGICAL PROPERTIES Helium is nontoxic but the liberation of a large amount in a confined area could displace the amount of oxygen in air necessary to support life.
RECOMMENDED FIRST AID TREATMENT PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO HELIUM. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given mouth-to-mouth resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

Information contained in this material safety data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use.

Since the Company shall have no control of the use of the product described herein, the Company assumes no liability for loss or damage incurred from the proper or improper use of such product.

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

None

PHYSICAL DATA

BOILING POINT -452.1°F (-268.9°C)	LIQUID DENSITY AT BOILING POINT 7.8 lb/ft ³ (125 kg/m ³)
VAPOR PRESSURE @ 70°F (21.1°C) Above the critical temp. of -450.3°F (-268°C)	GAS DENSITY AT 70°F, 1 atm .0103 lb/ft ³ (.1650 kg/m ³)
SOLUBILITY IN WATER Negligible	FREEZING POINT Freezing point = -456.5°F (-271.3°C)
EVAPORATION RATE N/A	SPECIFIC GRAVITY (AIR=1) @ 70°F (21.1°C) = .138
APPEARANCE AND ODOR Colorless, odorless gas	

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) N/A	AUTO IGNITION TEMPERATURE N/A	FLAMMABLE LIMITS % BY VOLUME LEL N/A UEL N/A	
EXTINGUISHING MEDIA Nonflammable, inert gas		ELECTRICAL CLASSIFICATION Nonhazardous	
SPECIAL FIRE FIGHTING PROCEDURES N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS N/A			

REACTIVITY DATA

STABILITY Unstable		CONDITIONS TO AVOID
Stable	X	N/A
INCOMPATIBILITY (Materials to avoid) None		
HAZARDOUS DECOMPOSITION PRODUCTS None		
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
May Occur		N/A
Will Not Occur	X	

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.

WASTE DISPOSAL METHOD Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

RESPIRATORY PROTECTION (Specify type)		Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.	
VENTILATION See Local Exhaust on last page.	LOCAL EXHAUST See last page.	SPECIAL	N/A
	MECHANICAL (Gen) N/A	OTHER	N/A
PROTECTIVE GLOVES Any material			
EYE PROTECTION Safety goggles or glasses			
OTHER PROTECTIVE EQUIPMENT Safety shoes			

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION	
DOT Shipping Name: Helium or Helium, Compressed	DOT Hazard Class: Nonflammable gas
DOT Shipping Label: Nonflammable gas	I.D. No.: UN 1046
SPECIAL HANDLING RECOMMENDATIONS	
<p>Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3,000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.</p> <p>For additional handling recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14 and Safety Bulletin SB-2.</p>	
SPECIAL STORAGE RECOMMENDATIONS	
<p>Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130F (54C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time.</p> <p>For additional storage recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14 and Safety Bulletin SB-2.</p>	
SPECIAL PACKAGING RECOMMENDATIONS	
Helium is noncorrosive and may be used with any common structural material.	
OTHER RECOMMENDATIONS OR PRECAUTIONS	
Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).	

*Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation, handling, storage or use of this product which will not be reflected in this data sheet. The customer should review these regulations to ensure that he is in full compliance.

LOCAL EXHAUST: (Continued)

To prevent accumulation of high concentrations so as to reduce the oxygen level in the air to less than 18 molar percent.

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF 3)

BUSINESS NAME (4) H S J Auto Repair INC.
CHEMICAL LOCATION (5) 2511 CHADMAN AVE. GARDEN GROVE CA, 92841
MAP # (if more than one) (6) GRID # (7)

CHEMICAL NAME (8) ARGON - CARBON DIOXIDE ^{MIK 75-25} TRADE SECRET (11) Y N
COMMON NAME (9) ARGON - CO2 mix AHM / *EHS (12) Y N
CAS # (10) 124-38-9 / 7440-37-1 *IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS
FIRE CODE HAZARD CLASSES* (13) NON FLAMMABLE GAS

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (15) (16)
PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 217
DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 100
LARGEST CONTAINER (21) ANNUAL WASTE AMT (25) 0

STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP.

PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1.	<u>SYMPTOMS OF EXPOSURE</u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u>124-38-9</u>
2.	<u>RESPIRATION & HEADACHES</u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u>7440-37-1</u>
3.		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION
*COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION CO2
UN/DOT # UN1013 / UN1006 DR.
Refer to shipping papers or MSDS
DOT HAZARD CLASS NONFLAMMABLE 2.2
Refer to shipping papers or MSDS
UFC HAZARD CLASS CARBONATE FAMILY

NFPA 704 HAZARD DIAMOND
FIRE RED
HEALTH BLUE
SPECIAL HAZARD
WHITE OX/WR
REACTIVE YELLOW

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

PRODUCT NAME Argon	CAS # 7440-37-1
TRADE NAME AND SYNONYMS Argon; Argon, compressed	DOT ID No. UN 1006
CHEMICAL NAME AND SYNONYMS Argon	DOT Hazard Class Nonflammable gas
ISSUE DATE AND REVISIONS 25 November 1985	Formula Ar
	Chemical Family Rare gas

HEALTH HAZARD DATA

<p>TIME WEIGHTED AVERAGE EXPOSURE LIMIT Argon is defined as a simple asphyxiant. Oxygen levels should be maintained at greater than 18 molar percent at normal atmospheric pressure which is equivalent to a partial pressure of 135 mm Hg (ACGIH, 1985-86).</p>
<p>SYMPTOMS OF EXPOSURE</p> <p>Effects of exposure to high concentrations so as to displace the oxygen in air necessary for life may include <u>any</u>, <u>all</u>, or <u>none</u> of the following:</p> <ul style="list-style-type: none"> o Loss of balance or dizziness o Tightness in the frontal area of the forehead o Tingling in the tongue, fingertips or toes <p style="text-align: right;">(Continued on last page.)</p>
<p>TOXICOLOGICAL PROPERTIES</p> <p>Argon is nontoxic but the liberation of a large amount in a confined area could displace the amount of oxygen in air necessary to support life.</p>
<p>RECOMMENDED/FIRST AID TREATMENT</p> <p>PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ARGON. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.</p> <p>Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given mouth-to-mouth resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.</p>

Information contained in this material safety data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use.

Since the Company shall have no control of the use of the product described herein, the Company assumes no liability for loss or damage incurred from the proper or improper use of such product.

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

None

PHYSICAL DATA

BOILING POINT -302.6°F (-185.9°C)	LIQUID DENSITY AT BOILING POINT 87 lb/ft ³ (1393 kg/m ³)
VAPOR PRESSURE @ 70°F (21.1°C): Above the critical temp. of -188.1°F (-122.3°C)	GAS DENSITY AT 70°F, 1 atm .1034 lb/ft ³ (1.656 kg/m ³)
SOLUBILITY IN WATER Very slightly	FREEZING POINT -308.9°F (-189.4°C)
EVAPORATION RATE N/A	SPECIFIC GRAVITY (AIR=1) 1.38
APPEARANCE AND ODOR Colorless; odorless gas	

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) N/A	AUTO IGNITION TEMPERATURE N/A	FLAMMABLE LIMITS % BY VOLUME LEL N/A UEL N/A
EXTINGUISHING MEDIA Nonflammable, inert gas		ELECTRICAL CLASSIFICATION Nonhazardous
SPECIAL FIRE FIGHTING PROCEDURES N/A		
UNUSUAL FIRE AND EXPLOSION HAZARDS N/A		

REACTIVITY DATA

STABILITY Unstable	CONDITIONS TO AVOID
Stable	X N/A
INCOMPATIBILITY (Materials to avoid) None	
HAZARDOUS DECOMPOSITION PRODUCTS None	
HAZARDOUS POLYMERIZATION May Occur	CONDITIONS TO AVOID
Will Not Occur	X N/A

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.
WASTE DISPOSAL METHOD Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

RESPIRATORY PROTECTION (Specify type)		Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.	
VENTILATION See Local Exhaust on last page.	LOCAL EXHAUST	SPECIAL	N/A
	MECHANICAL (Gen.)	OTHER	N/A
PROTECTIVE GLOVES Any material			
EYE PROTECTION Safety goggles or glasses			
OTHER PROTECTIVE EQUIPMENT Safety shoes			

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION	
DOT Shipping Name: Argon or Argon, Compressed	DOT Hazard Class: Nonflammable gas
DOT Shipping Label: Nonflammable gas	I.D. No.: UN 1006
SPECIAL HANDLING RECOMMENDATIONS	
<p>Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3,000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.</p> <p>For additional recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.</p>	
SPECIAL STORAGE RECOMMENDATIONS	
<p>Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130F (54C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time.</p> <p>For additional recommendations, consult Compressed Gas Association's Pamphlets P-1, P-9, P-14, and Safety Bulletin SB-2.</p>	
SPECIAL PACKAGING RECOMMENDATIONS	
<p>Argon is noncorrosive and may be used with any common structural material.</p>	
OTHER RECOMMENDATIONS OR PRECAUTIONS	
<p>Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).</p>	

*Various Government agencies (i.e. Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation, handling, storage or use of this product.

SYMPTOMS OF EXPOSURE: (Continued)

- o Weakened speech leading to the inability to utter sounds
- o Rapid reduction in the ability to perform movements
- o Reduced consciousness of the surroundings
- o Loss of tactile sensations
- o Heightened mental activity

It should be recognized that it is possible that none of the above symptoms may occur in argon asphyxia so that there are no definite warning symptoms.

LOCAL EXHAUST: (Continued)

To prevent accumulation of high concentrations so as to reduce the oxygen level in the air to less than 18 molar percent.

PRODUCT NAME Carbon Dioxide	CAS # 124-38-9
TRADE NAME AND SYNONYMS Carbon Dioxide; Carbonic Anhydride	DOT ID No: UN 1013
CHEMICAL NAME AND SYNONYMS Carbon Dioxide	DOT Hazard Class: Nonflammable gas
ISSUE DATE AND REVISIONS 25 November 1985	Formula: CO ₂
	Chemical Family: Carbonate

HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE EXPOSURE LIMIT 5,000 Molar PPM. Its STEL is proposed to be changed from 15,000 Molar PPM to 30,000 Molar PPM (ACGIH, 1985-86). OSHA (1985) TWA = 5,000 Molar PPM.
SYMPTOMS OF EXPOSURE Inhalation: Low concentrations (3-5 molar %) cause increased respiration and headache. Eight to 15 molar % concentrations cause headache, nausea and vomiting which may lead to unconsciousness if not moved to open air or given oxygen. Higher concentrations cause rapid circulatory insufficiency leading to coma and death.
TOXICOLOGICAL PROPERTIES Carbon dioxide is the most powerful cerebral vasodilator known. Inhaling large concentrations causes rapid circulatory insufficiency leading to coma and death. Chronic harmful effects are not known from repeated inhalation of low (3-5 molar %) concentrations.
RECOMMENDED FIRST AID TREATMENT PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO CARBON DIOXIDE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given mouth-to-mouth resuscitation and supplemental oxygen. Assure that vomited material does not obstruct the airway by use of positional drainage. Further treatment should be symptomatic and supportive.

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HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Forms carbonic acid in the presence of water.

PHYSICAL DATA

BOILING POINT (-78.5°C)	Sublimation point = -109.3°F	LIQUID DENSITY AT BOILING POINT 97.5 lb/ft ³ (1562 kg/m ³)	Solid Density =
VAPOR PRESSURE @ 70°F (21.1°C): 856 psia (5900 kPa)		GAS DENSITY AT 70°F, 1 atm .124 lb/ft ³ (1.99 kg/m ³)	
SOLUBILITY IN WATER Very soluble		FREEZING POINT -69.8°F (-56.6°C) @ 75.1 psia (518 kPa)	
EVAPORATION RATE N/A		SPECIFIC GRAVITY (AIR=1) @ 70°F (21.1°C) = 1.65	
APPEARANCE AND ODOR Colorless, odorless gas			

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) N/A	AUTO IGNITION TEMPERATURE N/A	FLAMMABLE LIMITS % BY VOLUME LEL N/A UEL N/A	
EXTINGUISHING MEDIA Nonflammable, inert gas		ELECTRICAL CLASSIFICATION Nonhazardous	
SPECIAL FIRE FIGHTING PROCEDURES N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS N/A			

REACTIVITY DATA

STABILITY Unstable		CONDITIONS TO AVOID
Stable	X	N/A
INCOMPATIBILITY (Materials to avoid) None		
HAZARDOUS DECOMPOSITION PRODUCTS Carbon Monoxide		
HAZARDOUS POLYMERIZATION May Occur		CONDITIONS TO AVOID
Will Not Occur	X	N/A

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.
WASTE DISPOSAL METHOD Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

RESPIRATORY PROTECTION (Specify type) Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.		
VENTILATION See Local Exhaust	LOCAL EXHAUST To prevent accumulation above the TWA. MECHANICAL (Gen.) N/A	SPECIAL N/A OTHER N/A
PROTECTIVE GLOVES Any material		
EYE PROTECTION Safety goggles or glasses		
OTHER PROTECTIVE EQUIPMENT Safety shoes		

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION DOT Shipping Name: Carbon Dioxide DOT Shipping Label: Nonflammable gas		DOT Hazard Class: Nonflammable gas I.D. No.: UN 1013
SPECIAL HANDLING RECOMMENDATIONS Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<1500 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. For additional handling recommendations, consult Compressed Gas Association's Pamphlets P-1, G-6, G-6.1, and G-6.2.		
SPECIAL STORAGE RECOMMENDATIONS Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130F (54C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in - first out" inventory system to prevent full cylinders being stored for excessive periods of time. For additional storage recommendations, consult Compressed Gas Association's Pamphlets P-1, G-6, G-6.1, and G-6.2.		
SPECIAL PACKAGING RECOMMENDATIONS Dry carbon dioxide can be handled with most common structural materials. Moist carbon dioxide is corrosive by its formation of carbonic acid. For these applications, 316, 309 and 310 stainless steels may be used as well as Hastelloy® A, B & C and Monel®. Ferrous nickel alloys are slightly corroded. At normal temperatures carbon dioxide is compatible with most plastics and elastomers.		
OTHER RECOMMENDATIONS OR PRECAUTIONS Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).		

*Various Government agencies (i.e. Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation, handling, storage or use of this product which will not be reflected in this data sheet. The customer should consult these agencies for more information.

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF 3)

BUSINESS NAME (4) HET Auto Repair INC.
 CHEMICAL LOCATION (5) (Address, Area, Building, etc.) 7511 CHAPMAN AV. GARDEN GROVE CA, 92841
 MAP # (if more than one) (6) GRID # (7)

CHEMICAL NAME (8) OXYGEN TRADE SECRET (11) Y N
 COMMON NAME (9) OXYGEN AHM / *EHS (12) Y N
 CAS # (10) 7782-44-7
 FIRE CODE HAZARD CLASSES* (13) ~~NONFLAMMABLE GAS~~ OXIDIZER
 *IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE CHECK # RADIOACTIVE (15) (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
 STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 217
 DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 100
 LARGEST CONTAINER (21) ANNUAL WASTE AMT (25) 0
 STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP.

PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1.	<u>Hyperoxia O₂</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>7782-44-7</u>
2.		<input type="checkbox"/> Y <input type="checkbox"/> N	
3.		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) **ADDITIONAL LOCALLY COLLECTED INFORMATION**
 *COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION

UN/DOT # UN 1072
 Refer to shipping papers or MSDS

DOT HAZARD CLASS NONFLAMMABLE 2.2
 Refer to shipping papers or MSDS

UFC HAZARD CLASS OXIDIZER

NFPA 704 HAZARD DIAMOND
 FIRE RED
 HEALTH BLUE
 REACTIVE YELLOW
 SPECIAL HAZARD
 WHITE OX/W.

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

PRODUCT NAME Oxygen	CAS # 7782-44-7
TRADE NAME AND SYNONYMS Oxygen	DOT ID No. UN 1072
CHEMICAL NAME AND SYNONYMS Oxygen	DOT Hazard Class: Nonflammable gas
ISSUE DATE AND REVISIONS 25 November 1985	Formula: O ₂
	Chemical Family: Oxidizer

HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE EXPOSURE LIMIT None established (ACGIH, 1985-86). Oxygen is the "vital element" in the atmosphere in which we live and breathe (approximately 21 molar % of the atmosphere).
SYMPTOMS OF EXPOSURE Breathing high concentrations (greater than 75 molar percent) causes symptoms of hyperoxia which include cramps, nausea, dizziness, hypothermia, amblyopia, respiratory difficulties, bradycardia, fainting spells, and convulsions capable of leading to death. For additional information on hyperoxia, see Compressed Gas Association's Pamphlet P-14.
TOXICOLOGICAL PROPERTIES The property is that of hyperoxia which leads to pneumonia. Concentrations between 25 and 75 molar percent present a risk of inflammation of organic matter in the body.
RECOMMENDED FIRST AID TREATMENT PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO OXYGEN. RESCUE PERSONNEL SHOULD BE COGNIZANT OF EXTREME FIRE HAZARD ASSOCIATED WITH OXYGEN-RICH ATMOSPHERES. Conscious persons should be assisted to an uncontaminated area and breathe fresh air. They should be kept warm and quiet. The physician should be informed that the victim is experiencing (has experienced) hyperoxia. Unconscious persons should be moved to an uncontaminated area and given assisted respiration. When breathing has been restored, treatment should be as above. Continued treatment should be symptomatic and supportive.

Information contained in this material safety data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use.

Since the Company shall have no control of the use of the product described herein, the Company assumes no liability for loss or damage incurred from the proper or improper use of such product.

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Oxygen vigorously accelerates combustion. Contact with all flammable materials should be avoided. Some materials which are not flammable in air will burn in pure oxygen or oxygen-enriched atmospheres.

PHYSICAL DATA

BOILING POINT -297.3°F (-182.9°C)	LIQUID DENSITY AT BOILING POINT 71.23 lb/ft ³ (1141 kg/m ³)
VAPOR PRESSURE @ 70°F (21.1°C) Above the critical temp. of -181.1°F (-118.4°C)	GAS DENSITY AT 70°F, 1 atm .0828 lb/ft ³ (1.326 kg/m ³)
SOLUBILITY IN WATER Slightly	FREEZING POINT -361.8°F (-218.8°C)
EVAPORATION RATE N/A	SPECIFIC GRAVITY (AIR=1) @ 70°F (21.1°C) = 1.11
APPEARANCE AND ODOR Colorless, odorless gas	

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) N/A	AUTO IGNITION TEMPERATURE N/A	FLAMMABLE LIMITS % BY VOLUME LEL N/A UEL N/A
EXTINGUISHING MEDIA Copious quantities of water for fires with oxygen as the oxidizer.		ELECTRICAL CLASSIFICATION Nonhazardous
SPECIAL FIRE FIGHTING PROCEDURES If possible, stop the flow of oxygen which is supporting the fire.		
UNUSUAL FIRE AND EXPLOSION HAZARDS Vigorously accelerates combustion.		

REACTIVITY DATA

STABILITY Unstable		CONDITIONS TO AVOID
Stable	X	N/A
INCOMPATIBILITY (Materials to avoid) All flammable materials		
HAZARDOUS DECOMPOSITION PRODUCTS None		
HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
May Occur		N/A
Will Not Occur	X	

SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.

WASTE DISPOSAL METHOD Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

RESPIRATORY PROTECTION (Specify type) N/A			
VENTILATION To prevent accumulation above 25 molar percent.	LOCAL EXHAUST To prevent accumulation above 25 molar percent.	SPECIAL	N/A
	MECHANICAL (Gen) N/A	OTHER	N/A
PROTECTIVE GLOVES As required; any material			
EYE PROTECTION Safety goggles or glasses			
OTHER PROTECTIVE EQUIPMENT Safety shoes, safety shower			

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION DOT Shipping Name: Oxygen or Oxygen, compressed DOT Hazard Class: Nonflammable gas DOT Shipping Label: Oxidizer I.D. No.: UN 1072	
SPECIAL HANDLING RECOMMENDATIONS Use only in well-ventilated areas. Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. For additional handling recommendations, consult Compressed Gas Association's Pamphlets P-1, P-14, and G-4.	
SPECIAL STORAGE RECOMMENDATIONS Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits and away from full or empty stored cylinders which contain flammable products. Do not allow the temperature where cylinders are stored to exceed 130F (54C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time. For additional storage recommendations, consult Compressed Gas Association's Pamphlets P-1, P-14, and G-4.	
SPECIAL PACKAGING RECOMMENDATIONS Carbon steels and low alloy steels are acceptable for use at lower pressures. For high pressure applications use stainless steels, copper and its alloys, nickel and its alloys, brass, bronze, silicon alloys, Monel®, Inconel® or beryllium. Lead and silver or lead and tin alloys are good gasketing materials. Teflon® and Kel-F® are the preferred nonmetal gaskets. Special Note: It should be recognized that the ignition temperature of metals and nonmetals in pure oxygen service decreases with increasing oxygen pressure.	
OTHER RECOMMENDATIONS OR PRECAUTIONS Oxygen should not be used as a substitute for compressed air in pneumatic equipment since this type generally contains flammable lubricants. Equipment to contain oxygen must be "cleaned for oxygen service." See Compressed Gas Association Pamphlet G-4.1. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).	

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF (3)

BUSINESS NAME (4) H&J Auto Repair INC.
CHEMICAL LOCATION (Address, Area, Building, etc.) (5) 7511 CHAPMAN AV GARDEN GROVE CA 92841
MAP # (If more than one) (6) GRID # (7)

CHEMICAL NAME (8) Acetylene TRADE SECRET (11) Y N
COMMON NAME (9) Acetylene Ethyne AHM / *EHS (12) Y N
CAS # (10) 74-86-2
FIRE CODE HAZARD CLASSES* (13) FLAMMABLE GAS
*IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (15) (16)
PHYSICAL STATE (17) SOLID LIQUID GAS CURIES (18)

FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 217
DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 100
LARGEST CONTAINER (21) ANNUAL WASTE AMT (25) 0

STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP.

PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1.	<u>Simple Asphyxiant.</u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u>74-86-2</u>
2.		<input type="checkbox"/> Y <input type="checkbox"/> N	
3.		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION
*COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION

UN/DOT # ~~FLAMMABLE GAS~~ 1001
Refer to shipping papers or MSDS

DOT HAZARD CLASS ~~UN 1001~~ 3
Refer to shipping papers or MSDS

UFC HAZARD CLASS FLAMMABLE

NFPA 704 HAZARD DIAMOND FIRE RED

HEALTH BLUE → 2 (HEALTH) ← REACTIVE YELLOW 0
SPECIAL HAZARD ↗ 0 (SPECIAL) ↖ WHITE OX/WK 0

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

PRODUCT NAME Acetylene	CAS # 74-86-2
TRADE NAME AND SYNONYMS Acetylene, Ethyne	DOT I.D. No. UN 1001
CHEMICAL NAME AND SYNONYMS Acetylene	DOT Hazard Class Flammable gas
ISSUE DATE AND REVISIONS 25 November 1985	Formula C ₂ H ₂
	Chemical Family Alkyne

HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE EXPOSURE LIMIT Acetylene is defined as a simple asphyxiant. Oxygen levels should be maintained at greater than 18 molar percent at normal atmospheric pressure which is equivalent to a partial pressure of 135 mm Hg. (ACGIH, 1985-86)

SYMPTOMS OF EXPOSURE

Inhalation: Low concentrations (10-20% in air) cause symptoms similar to that of being intoxicated. Higher concentrations so as to exclude an adequate supply of oxygen to the lungs cause unconsciousness.

TOXICOLOGICAL PROPERTIES

As a narcotic gas or intoxicant causes hypercapnia (an excessive amount of carbon dioxide in the blood). Repeated exposures to tolerable levels has not shown deleterious effects. The major property is the exclusion of an adequate supply of oxygen to the lungs.

RECOMMENDED FIRST AID TREATMENT

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ACETYLENE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND BE COGNIZANT OF EXTREME FIRE AND EXPLOSION HAZARD.

Inhalation: Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given mouth-to-mouth resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

Information contained in this material safety data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use.

Since the Company shall have no control of the use of the product described herein, the Company assumes no liability for loss or damage incurred from the proper or improper use of such product.

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

Flammable over an extremely wide range in air. Explosive reactions may occur on ignition. Reacts explosively with halogens and halogenated compounds.

PHYSICAL DATA

BOILING POINT Sublimation point = -118.8°F (-83.8°C)	LIQUID DENSITY AT BOILING POINT @ -116°F (-82°C) = 38.8 lb/ft ³ (622 kg/m ³)
VAPOR PRESSURE @ 70°F (21.1°C): 645 psia (4450 kPa)	GAS DENSITY AT 70°F, 1 atm .0691 lb/ft ³ (1.107 kg/m ³)
SOLUBILITY IN WATER Soluble	FREEZING POINT -113°F (-80.6°C)
EVAPORATION RATE N/A	SPECIFIC GRAVITY (AIR=1) @ 68°F (20°C) = 0.906
APPEARANCE AND ODOR Pure acetylene is a colorless gas with an ethereal odor. Commercial (carbide) acetylene has a distinctive garlic-like odor.	

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) Gas	AUTO IGNITION TEMPERATURE 565°F (296°C)	FLAMMABLE LIMITS % BY VOLUME See last page LEL 2.2 UEL 80-85
EXTINGUISHING MEDIA Carbon dioxide; dry chemical	ELECTRICAL CLASSIFICATION Class 1, Group A	
SPECIAL FIRE FIGHTING PROCEDURES If possible, stop flow of escaping gas. Use water spray to cool surrounding containers. Keep personnel away since heated or burning cylinders can rupture violently.		
UNUSUAL FIRE AND EXPLOSION HAZARDS GASEOUS ACETYLENE IS SPONTANEOUSLY COMBUSTIBLE IN AIR AT PRESSURES ABOVE 30 PSIA (207 kPa). It requires a very low ignition energy so that fires which have been extinguished without stopping the flow of gas can easily reignite with possible explosive force. (Continued on last page.)		

REACTIVITY DATA

STABILITY Unstable	X	CONDITIONS TO AVOID Do not allow the free gas (outside of cylinder) to exceed 30 psia. Cylinders should not be exposed to sudden shock or sources of heat.
Stable		
INCOMPATIBILITY (Materials to avoid) Oxygen and other oxidizers including all of the halogens and halogen compounds. (Continued on last page.)		
HAZARDOUS DECOMPOSITION PRODUCTS Carbon and hydrogen		
HAZARDOUS POLYMERIZATION May Occur	X	CONDITIONS TO AVOID N/A
Will Not Occur		

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container or container valve, contact your closest supplier location or call the emergency telephone number listed herein.
WASTE DISPOSAL METHOD Do not attempt to dispose of waste or unused quantities. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to your supplier. For emergency disposal assistance, contact your closest supplier location or call the emergency telephone number listed herein.

RESPIRATORY PROTECTION (Specify type) Positive pressure air line with mask or self-contained breathing apparatus should be available for emergency use.		
VENTILATION Hood with forced ventilation.	LOCAL EXHAUST To prevent accumulation above the LEL.	SPECIAL N/A
	MECHANICAL (Gen.) In accordance with electrical codes.	OTHER N/A
PROTECTIVE GLOVES PVC or rubber in laboratory; as required for cutting and welding.		
EYE PROTECTION Safety goggles or glasses		
OTHER PROTECTIVE EQUIPMENT Safety shoes, safety shower		

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION DOT Shipping Name: Acetylene DOT Hazard Class: Flammable gas DOT Shipping Label: Flammable gas I.D. No.: UN 1001	
SPECIAL HANDLING RECOMMENDATIONS Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when removing gas from the cylinder. DO NOT ALLOW THE FREE GAS TO EXCEED 30 PSIA (207 kPa) @ 70°F (21.1°C). Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder. For additional recommendations, consult Compressed Gas Association's Pamphlets G-1, P-1, P-14 and Safety Bulletin SB-2.	
SPECIAL STORAGE RECOMMENDATIONS Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130F (54C). Cylinders must be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time. Post "No Smoking or Open Flames" signs in the storage or use area. There should be no sources of ignition in the storage or use area. For additional recommendations, consult Compressed Gas Association's Pamphlets G-1, P-1, P-14, and Safety Bulletin SB-2.	
SPECIAL PACKAGING RECOMMENDATIONS Since acetylene will explode or combust if its pressure exceeds 30 psia (207 kPa) it is shipped dissolved in acetone or dimethylformamide which is dispersed in a porous mass within the cylinder. Follow your supplier's instructions for the maximum withdrawal rate for each size cylinder so that solvent is not withdrawn with the acetylene. Most metals except silver, copper, mercury or brasses with more than 66% copper are compatible (non corrosive) with acetylene.	
OTHER RECOMMENDATIONS OR PRECAUTIONS Earth-ground and bond all lines and equipment associated with the acetylene system. Electrical equipment should be non-sparking or explosion proof. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder which has not been filled by the owner or with his (written) consent is a violation of Federal Law (49CFR).	

FIRE AND EXPLOSION HAZARD DATA (Continued)

UEL: (Continued)

Pure acetylene can ignite by decomposition above 30 psia (207 kPa); therefore, the UEL is 100% if the ignition source is of sufficient intensity.

FIRE AND EXPLOSION HAZARD DATA (Continued)

UNUSUAL FIRE AND EXPLOSION HAZARDS: (Continued)

Acetylene has a density very similar to that of air so when leaking it does not readily dissipate.

REACTIVITY DATA (Continued)

INCOMPATIBILITY: (Continued)

Forms explosive acetylides with copper, mercury, silver, brasses containing more than 66% copper and brazing materials containing silver or copper.

FIRE AND EXPLOSION HAZARD DATA (Continued)

FLAMMABLE LIMITS % BY VOLUME: (Continued)

Pure acetylene can ignite by decomposition above 30 psia (207 kPa); therefore, the UEL is 100% if the ignition source is of sufficient intensity.

CALIFORNIA CHEMICAL INVENTORY FORM – DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF 3)

BUSINESS NAME (4) H & J Auto Repair INC
 CHEMICAL LOCATION (Address, Area, Building, etc.) (5) 7511 CHAPMAN AV GARDEN GROVE CA 92841
 MAP # (if more than one) (6) GRID # (7)

CHEMICAL NAME (8) ANTIFREEZE-WASTE TRADE SECRET (11) Y N
 COMMON NAME (9) COOLANT-ETHYLENE GLYCOL AHM / *EHS (12) Y N
 CAS # (10) 107-21-1 *IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS
 FIRE CODE HAZARD CLASSES* (13)

***COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.**

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (15) (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
 STATE WASTE CODE (19) N/A UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 3
 DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 3
 LARGEST CONTAINER (21) 55 ANNUAL WASTE AMT (25) 700
 STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP.
 PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT
 STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1. <u>90</u>	<u>ETHYLENE GLYCOL</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>107-21-1</u>
2.		<input type="checkbox"/> Y <input type="checkbox"/> N	
3.		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) **ADDITIONAL LOCALLY COLLECTED INFORMATION**
 *COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION

UN/DOT # 1986
 Refer to shipping papers or MSDS

DOT HAZARD CLASS 3
 Refer to shipping papers or MSDS

UFC HAZARD CLASS COMB L1Q

NFPA 704 HAZARD DIAMOND
 FIRE RED
 HEALTH BLUE
 REACTIVE YELLOW
 SPECIAL HAZARD
 WHITE OX/WK

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

PRODUCT NUMBER: 547278 Zerex Antifreeze

SECTION I

*Registered Trademark

TRADE NAME: Zerex Antifreeze

CHEMICAL NAME: Inhibited Ethylene Glycol

SYNONYMS: Permanent Antifreeze,
Engine Coolant

FORMULA: Mixture

CHEMICAL FAMILY: Glycols

MOL. WGT.: N/A

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Zerex Antifreeze		100	Not established
Contains: Ethylene glycol Phosphates Proprietary additives	107-21-1 7758-11-4 N/A	-84 < 2 < 4	50 ppm C ACGIH, OSHA Final Not established Not established
SARA Title III Sect. 313: Listed.			

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT @760 mm Hg: 330°F / N/A	pH: 9.0-11.0
VAPOR PRESSURE mm Hg @20 C: 18	
SPECIFIC GRAVITY OR BULK DENSITY: 1.135	
SOLUBILITY IN WATER: Infinite	
APPEARANCE: Green Dyed Liquid	ODOR: Glycol
	INTENSITY: Faint

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TEST METHOD): 250°F C.O.C.	AUTOIGNITION TEMP: 775°F
FLAMMABILITY LIMITS IN AIR (% BY VOL)	LOWER: N/A
	UPPER: N/A
EXTINGUISHING MEDIUM	Use water fog, alcohol foam, CO2 or dry chemical extinguishing media. NFPA: 1/1/0
SPECIAL FIREFIGHTING PROCEDURES	Firefighters should be equipped with self-contained breathing apparatus and turnout gear. Avoid breathing vapors or fumes of heated or burning product.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Vapors from heated (above flash point) product may travel to a source of ignition and flash back.

EMERGENCY TELEPHONE NUMBER

CHEMTREC 800-424-9300

201-316-3000

THIS NUMBER IS AVAILABLE DAYS, NIGHTS, WEEKENDS, AND HOLIDAYS

PRODUCT NUMBER: 547278 Zerex Antifreeze

SECTION VIII - ENVIRONMENTAL DATA

ENVIRONMENTAL TOXICITY DATA:

Fish Toxicity: LC50 = 1400 mg/l (Bluegill, 96 hour)

SPILL AND LEAK PROCEDURES:

Spills should be contained, solidified, and placed in suitable containers for disposal. This material is not regulated under RCRA or CERCLA ("Superfund"). Clean up quickly as spills are a slipping hazard.

HAZARDOUS SUBSTANCE SUPERFUND: No RQ (lbs):

WASTE DISPOSAL METHOD:

Incinerate or bury in a licensed facility. Do not discharge into waterways. Discharge to sewer systems with prior approvals is acceptable.

HAZARDOUS WASTE 40CFR261: No HAZARDOUS WASTE NUMBER:

CONTAINER DISPOSAL:

Dispose of in licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

SECTION IX - SHIPPING DATA

D.O.T. PROPER SHIPPING NAME (49CFR172.101-102)

None

HAZARDOUS SUBSTANCE (49CFR CERCLA LIST)

No

REPORTABLE QUANTITY (RQ) None

D.O.T. HAZARD CLASSIFICATION (CFR172.101-102)

PRIMARY

None

SECONDARY

N/A

D.O.T. LABELS REQUIRED (49CFR172.101-102)

None

D.O.T. PLACARDS REQUIRED (CFR172.504)

None

POISON CONSTITUENT (49CFR172.203(K))

N/A

BILL OF LADING DESCRIPTION

Antifreeze Preparations, Proprietary (Ethylene Glycol Base)

CC NO. 332

UN/NA CODE None

DATE PREPARED: 3 / 29 / 88

UPDATED: 9 / 12 / 89

WHILE BASF CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS OF THE DATE HEREOF, BASF CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF (3)

BUSINESS NAME (4) H E J Auto Repair INC -
 CHEMICAL LOCATION (5) 7511 CHAPMAN AV GARIDEN GROVE CA 92841
 MAP # (if more than one) (6) GRID # (7)

CHEMICAL NAME (8) PETROLEUM DISTILLATES TRADE SECRET (11) Y N
 COMMON NAME (9) OIL (NEW) AHM / *EHS (12) Y N
 CAS # (10) 64742-65-0
 FIRE CODE HAZARD CLASSES* (13)

*IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

*COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (15) (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
 STATE WASTE CODE (19) 221 N/A UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 300
 DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 150
 LARGEST CONTAINER (21) 150 ANNUAL WASTE AMT (25) 495
 STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP.
 PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT
 STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1.	<u>PETROLEUM LUBE OIL</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>64742-65-0</u>
2.	<u>DETERGENT / DISPERSANT</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>N/A</u>
3.	<u>ENGINE OIL PACKAGE</u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u>N/A</u>

(33) **ADDITIONAL LOCALLY COLLECTED INFORMATION**
 *COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

NFPA CLASSIFICATION 1 2 7 0
 UN/DOT # 1770
 Refer to shipping papers or MSDS
 DOT HAZARD CLASS 9 3
 Refer to shipping papers or MSDS
 UFC HAZARD CLASS A3 Comb Liq

NFPA 704 HAZARD DIAMOND
 FIRE RED
 HEALTH BLUE
 SPECIAL HAZARD
 REACTIVE YELLOW
 WHITE OX/WX

MAKE AS MANY COPIES OF CHEMICAL INVENTORY FORM AS NEEDED

MATERIAL SAFETY DATA SHEET



1. PRODUCT IDENTIFICATION

MANUFACTURER'S NAME PENNZOIL COMPANY

CAS NUMBER: MIXTURE
MSDS CODE: 000303 CLASS#

ADDRESS P.O. BOX 2967
HOUSTON, TX 77252-2967

EMERGENCY TELEPHONE NO. (800) 546-6040

NFPA HAZARD IDENTIFICATION
DEGREE OF HAZARD HAZARD RATINGS
HEALTH: 1 0-LEAST
FIRE: 1 1-SLIGHT
REACTIVITY: 0 2-MODERATE
3-HIGH
4-EXTREME

TRADE NAME: PENNZOIL® MOTOR OIL SAE 10W-40

SYNONYMS: HD 200 SAE 10W-40, SPECIAL PERFORMANCE MOTOR OIL 10W-40

BY: ENVIRONMENTAL, SAFETY & HEALTH
(800) 546-6227

EFFECTIVE DATE: JULY 14, 1995
SUPERSEDES DATE: AUGUST 03, 1994

2. INGREDIENTS

COMPONENT NAME CAS NUMBER	HAZARDOUS		PERCENTAGE		COMPONENT EXPOSURE LIMIT	UNIT
	IN BLEND		MIN	MAX		
BASE LUBRICATING OILS MIXTURE	NO		75	TO 85	OSHA PEL ACGIH TLV	NO LIMIT NO LIMIT
DETERGENT/INHIBITOR SYSTEM MIXTURE	NO		5	TO 15	OSHA PEL ACGIH TLV	NO LIMIT NO LIMIT
VISCOSITY INDEX IMPROVER MIXTURE	NO		5	TO 15	OSHA PEL ACGIH TLV	NO LIMIT NO LIMIT
POUR POINT DEPRESSANT MIXTURE	NO		<	1	OSHA PEL ACGIH TLV	NO LIMIT NO LIMIT

3. HEALTH INFORMATION AND PROTECTION

EYE CONTACT: THIS PRODUCT IS PRACTICALLY NON-IRRITATING TO THE EYES UPON DIRECT CONTACT. BASED ON TESTING OF SIMILAR PRODUCTS AND/OR COMPONENTS.

SKIN CONTACT: AVOID SKIN CONTACT. THIS PRODUCT IS MINIMALLY IRRITATING TO THE SKIN UPON DIRECT CONTACT. BASED ON TESTING OF SIMILAR PRODUCTS AND/OR COMPONENTS. PROLONGED OR REPEATED CONTACT MAY RESULT IN CONTACT DERMATITIS WHICH IS CHARACTERIZED BY DRYNESS, CHAPPING, AND REDDENING. THIS CONDITION MAY MAKE THE SKIN MORE SUSCEPTIBLE TO OTHER IRRITANTS, SENSITIZERS, AND DISEASE. PROLONGED OR REPEATED CONTACT MAY RESULT IN OIL ACNE WHICH IS CHARACTERIZED BY BLACKHEADS WITH POSSIBLE SECONDARY INFECTION. SEE HEALTH DATA SECTION BELOW.

INHALATION: THIS PRODUCT HAS A LOW VAPOR PRESSURE AND IS NOT EXPECTED TO PRESENT AN INHALATION HAZARD AT AMBIENT CONDITIONS. CAUTION SHOULD BE TAKEN TO PREVENT AEROSOLIZATION OR MISTING OF THIS PRODUCT. THE PERMISSABLE EXPOSURE LIMIT (PEL) AND THRESHOLD LIMIT VALUE (TLV) FOR THIS PRODUCT AS OIL MIST IS 5 MG/M3. EXPOSURES BELOW 5 MG/M3 APPEAR TO BE WITHOUT SIGNIFICANT HEALTH RISK. THE SHORT-TERM EXPOSURE LIMIT FOR THIS PRODUCT AS AN OIL MIST IS 10 MG/M3.

INGESTION: DO NOT INGEST. THIS PRODUCT IS RELATIVELY NON-TOXIC BY INGESTION. THIS PRODUCT HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA. SEE HEALTH DATA SECTION BELOW.

HEALTH DATA: ON RARE OCCASIONS, PROLONGED AND REPEATED EXPOSURE TO OIL MIST POSES A RISK OF PULMONARY DISEASE SUCH AS CHRONIC LUNG INFLAMMATION. THIS CONDITION IS USUALLY ASYMPTOMATIC AS A RESULT OF REPEATED SMALL ASPIRATIONS. SHORTNESS OF BREATH AND COUGH ARE THE MOST COMMON SYMPTOMS.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS CONCLUDED THERE ARE INADEQUATE DATA TO EVALUATE THE CARCINOGENICITY TO EXPERIMENTAL ANIMALS OF THIS CLASS OF PRODUCTS. THUS THIS PRODUCT BELONGS TO IARC CLASSIFICATION GROUP 3, "NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS." THIS PRODUCT IS NOT CARCINOGENIC ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD.

FOR GASOLINE-ENGINE MOTOR OILS ONLY. AVOID SKIN CONTACT WITH USED MOTOR OILS. THE IARC HAS CONCLUDED THERE IS SUFFICIENT EVIDENCE THAT USED GASOLINE-ENGINE MOTOR OILS PRODUCE SKIN TUMORS IN EXPERIMENTAL ANIMALS.

4. EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND CONTINUE FLUSHING UNTIL IRRITATION SUBSIDES. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL IMMEDIATELY.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED AREA THOROUGHLY WITH SOAP AND WATER. IF MATERIAL IS HOT, SUBMERGE INJURED AREA IN COLD WATER. IF VICTIM IS SEVERELY BURNED, REMOVE TO A HOSPITAL IMMEDIATELY.

INHALATION: THIS MATERIAL HAS A LOW VAPOR PRESSURE AND IS NOT EXPECTED TO PRESENT AN INHALATION EXPOSURE AT AMBIENT CONDITIONS.

INGESTION: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION.

5. PERSONAL HEALTH PROTECTION INFORMATION

EYE PROTECTION: EYE PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF MATERIAL IS HANDLED SUCH THAT IT COULD BE SPLASHED INTO EYES, WEAR PLASTIC FACE SHIELD OR SPLASH-PROOF SAFETY GOGGLES.

SKIN PROTECTION: NO SKIN PROTECTION IS REQUIRED FOR SINGLE, SHORT DURATION EXPOSURES. FOR PROLONGED OR REPEATED EXPOSURES, USE IMPERVIOUS CLOTHING (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE. IF HANDLING HOT MATERIAL, USE INSULATED PROTECTIVE CLOTHING (BOOTS, GLOVES, APRONS, ETC.). LAUNDRY SOILED CLOTHES. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES INCLUDING SHOES, WHICH CANNOT BE DECONTAMINATED.

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, USE AN ORGANIC VAPOR RESPIRATOR WITH A DUST AND MIST FILTER. ALL RESPIRATORS MUST BE NIOSH CERTIFIED. DO NOT USE COMPRESSED OXYGEN IN HYDROCARBON ATMOSPHERES.

VENTILATION: IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS.

OTHER: CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

6. FIRE PROTECTION INFORMATION

FLASH POINT: 410 F

TEST METHOD: C.O.C.

AUTOIGNITION TEMPERATURE: > 800 F

TEST METHOD: NO DATA

FLAMMABLE LIMITS IN AIR % BY VOLUME

LOWER: NO DATA

UPPER: NO DATA

EXTINGUISHING MEDIA: USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES: WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION SHOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHING MAY OCCUR, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

UNUSUAL FIRE AND EXPLOSIVE CONDITIONS: DENSE SMOKE MAY BE GENERATED WHILE BURNING. CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER OXIDES MAY BE GENERATED AS PRODUCTS OF COMBUSTION.

7. REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): STABLE

CONDITIONS TO AVOID: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY MATERIALS TO AVOID: MAY REACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

8. ENVIRONMENTAL PRECAUTIONS

STEPS TO BE
TAKEN IF
MATERIAL IS
RELEASED OR
SPILLED:

CONSULT HEALTH EFFECT INFORMATION IN SECTION III, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION V, FIRE PROTECTION INFORMATION IN SECTION VI, AND REACTIVITY DATA IN SECTION VII. NOTIFY APPROPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. REMOVE ALL SOURCES OF IGNITION. ABSORB WITH APPROPRIATE INERT MATERIAL SUCH AS SAND, CLAY, ETC. LARGE SPILLS MAY BE PICKED UP USING VACUUM PUMPS, SHOVELS, BUCKETS, OR OTHER MEANS AND PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS.

WASTE DISPOSAL
METHOD:

ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

9. MISCELLANEOUS

HANDLING AND
STORAGE
REQUIREMENTS:

DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS. THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOT REGULATIONS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND COMBUSTIBLE LIQUIDS. THIS PRODUCT IS NOT A CONTROLLED SUBSTANCE UNDER THE CANADIAN WHMIS REGULATIONS.

ADDITIONAL
INFORMATION:

THIS MIXTURE MAY BE FORMULATED IN PART WITH COMPONENTS PURCHASED FROM OTHER COMPANIES. IN MANY INSTANCES, ESPECIALLY WHEN PROPRIETARY OR TRADE SECRET MATERIALS ARE USED, PENNZOIL COMPANY MUST RELY UPON THE HAZARD EVALUATION OF SUCH COMPONENTS SUBMITTED TO PENNZOIL BY THAT PRODUCT'S MANUFACTURER OR IMPORTER.

=====

THIS PRODUCT CONTAINS THE FOLLOWING SARA TITLE III, SECTION 313
CHEMICALS:

ZINC COMPOUNDS,

<2.5%

=====

ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY.

10. PHYSICAL PROPERTIES

BOILING POINT: > 800 F

PERCENT VOLATILE: NO DATA

MELTING POINT: - 20 F

VAPOR DENSITY
(AIR=1): NO DATA

APPEARANCE: CLEAR AND BRIGHT

EVAPORATION RATE
(EE=1): NO DATA

ODOR: MILD PETROLEUM ODOR

SPECIFIC GRAVITY: .8723

VAPOR PRESSURE: NO DATA

MOLECULAR WEIGHT: VARIES

SOLUBILITY: SOLUBLE IN HYDROCARBONS, EMULSIFIES IN WATER

DISCLAIMER OF WARRANTY:

THE INFORMATION CONTAINED HEREIN IS BASED UPON DATA AVAILABLE TO US, AND REFLECTS OUR BEST PROFESSIONAL JUDGEMENT. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF SUCH DATA, THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THAT ANY SUCH USE DOES NOT INFRINGE ANY PATENT. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS OF USE BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, WE DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF SUCH APPLICATION. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR HIS PARTICULAR PURPOSE.

CALIFORNIA CHEMICAL INVENTORY FORM - DESCRIPTION PAGE

(1) ADD DELETE REVISE NO CHANGE

PAGE (2) OF 3)

BUSINESS NAME (4) H & J Auto REPAIR
 CHEMICAL LOCATION (5) (Address, Area, Building, etc.) 75 N CHAPMAN AV. GARDEN GROVE CA 92841
 MAP # (if more than one) (6) GRID # (7)

CHEMICAL NAME (8) WASTE OIL TRADE SECRET (11) Y N
 COMMON NAME (9) USED OIL WASTE AHM / *EHS (12) Y N
 CAS # (10) 64742-54-7 *IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS
 FIRE CODE HAZARD CLASSES* (13) COMB LIQ

***COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.**

TYPE (14) PURE MIXTURE WASTE CHECK IF RADIOACTIVE (15) (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD CATEGORIES (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH
 STATE WASTE CODE (19) 221 UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 165
 DAYS ON SITE (20) 365 *If EHS, amounts must be in lbs. AVG DAILY AMT (24) 80
 LARGEST CONTAINER (21) 55 ANNUAL WASTE AMT (25) 495
 STORAGE CONTAINER (26) ABOVE GROUND TANK - INSIDE CAN BOX(S) TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS CONTAINER
 STEEL DRUM FIBER DRUM PLASTIC CONTAINER Other
 PLASTIC/NONMETALLIC DRUM BAG(S) IN MACHINERY OR EQUIP

PRESSURE STORAGE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) % WT	(30) HAZARDOUS COMPONENTS	(31) EHS/AHM	(32) CAS #
1. <u>100</u>	<u>PETROLEUM DISTILLATES</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>64742-54-7</u>
2.		<input type="checkbox"/> Y <input type="checkbox"/> N	
3.		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION
***COMPLETE BLOCK (33) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.**

NFPA CLASSIFICATION _____
 UN/DOT # 1270 Refer to shipping papers or MSDS
 DOT HAZARD CLASS 9 Refer to shipping papers or MSDS
 UFC HAZARD CLASS D3 COMB LIQ

NFPA 704 HAZARD DIAMOND
 FIRE RED
 HEALTH BLUE → ← REACTIVE YELLOW
 SPECIAL HAZARD → ← WHITE OX/WX

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Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

USED MOTOR OIL

PRODUCT NUMBER(S): CPS224500

COMPANY IDENTIFICATION

Chevron USA Products Company
Environmental, Safety, and Health
Room 2900
575 Market St.
San Francisco, CA 94105-2856

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or
(510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (202)483-7616

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500
Environmental, Safety, & Health Info: (415) 894-1899
Product Information: (800) 582-3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % USED MOTOR OIL

CONTAINING

COMPONENTS

AMOUNT

LIMIT/QTY

AGENCY/TYPE

MOTOR OIL, USED

100.0%

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

- TLV - Threshold Limit Value
- STEL - Short-term Exposure Limit
- RQ - Reportable Quantity
- C - Ceiling Limit
- Al-5 - Appendix A Categories

- TWA - Time Weighted Average
- TPQ - Threshold Planning Quantity
- PEL - Permissible Exposure Limit
- CAS - Chemical Abstract Service Number
- () - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

Dark brown to black liquid.

- USED MOTOR OIL HAS CAUSED CANCER IN LABORATORY ANIMALS
- PROLONGED INHALATION OF VAPOR MAY BE HARMFUL
- KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYE:

This substance is not expected to cause prolonged or significant eye irritation.

SKIN:

This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. Read the Toxicology Information section (11) of this document for more information.

INGESTION:

If swallowed, this substance is considered practically non-toxic to internal organs. ||

INHALATION:

Prolonged breathing of aerosol can cause respiratory irritation.

SIGNS AND SYMPTOMS OF EXPOSURE:

INHALATION: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

4. FIRST AID MEASURES

EYE:

No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.

SKIN:

Remove contaminated clothing. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms described in this document occur. Discard contaminated non-waterproof shoes and boots. Wash contaminated clothing.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

INHALATION:

If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

USED MOTOR OIL

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: NDA

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NDA Upper: NDA

EXTINGUISHING MEDIA:

CO₂, dry chemical, foam and water fog.

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616

ACCIDENTAL RELEASE MEASURES:

This material is considered to be a water pollutant and releases of this product should be prevented from contaminating soil and water and from entering drainage and sewer systems.

U.S.A. regulations require reporting spills of this material that could reach any surface waters. The toll free number for the U.S. Coast Guard National Response Center is (800) 424-8802.

Stop the source of the leak or release. Clean up releases as soon as possible, observing precautions in Exposure Controls/Personal Protection. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:

No data available.

USED MOTOR OIL

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is usually necessary.

SKIN PROTECTION:

Avoid contact with skin or clothing. Skin contact should be minimized by wearing protective clothing including gloves.

RESPIRATORY PROTECTION:

Unless ventilation is adequate to keep airborne concentrations below recommended exposure standards, approved respiratory protection should be worn.

ENGINEERING CONTROLS:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Dark brown to black liquid.

PH: NDA
 VAPOR PRESSURE: NDA
 VAPOR DENSITY
 (AIR=1): NDA
 BOILING POINT: NDA
 FREEZING POINT: NDA
 MELTING POINT: NDA
 SOLUBILITY: Soluble in petroleum solvents.
 SPECIFIC GRAVITY: NDA
 DENSITY: NDA
 EVAPORATION RATE: NDA
 PERCENT VOLATILE
 (VOL): NDA

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

USED MOTOR OIL

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

The Draize Eye Irritation Score (range, 0-110) in rabbits is 1.33/110.

SKIN EFFECTS:

The Draize Skin Primary Irritation Score (range, 0-8) for a 4-hour exposure (rabbits) is 0.46. The dermal LD50 in rabbits is greater than 5 ml/kg.

ACUTE ORAL EFFECTS:

The oral LD50 in rats is > 25 ml/kg.

ACUTE INHALATION EFFECTS:

No product toxicology data available. The hazard evaluation was based on data from similar materials.

ADDITIONAL TOXICOLOGY INFORMATION:

In laboratory tests sponsored by the American Petroleum Institute (API), mice developed skin cancer following repeated application of and continuous skin exposure to used motor oils with no effort made to remove oil between applications. Brief or intermittent skin contact with used motor oils is not expected to have serious effects if the material is thoroughly removed by washing with soap and water. While skin cancer is unlikely to occur in humans from the handling of used motor oil, skin contact should be reduced to a minimum by following the precautions outlined in this MSDS.

This product gave positive results in the following mutagen testing assays: Ames assay.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:

Used oil collection services and collection centers can safely receive used motor oil for recycling or disposal. Some service stations, automotive service centers, and retailers provide used motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE
FEDERAL DOT

DOT HAZARD CLASS: NOT APPLICABLE

DOT IDENTIFICATION NUMBER: NOT APPLICABLE

DOT PACKING GROUP: NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects:	NO
2. Delayed (Chronic) Health Effects:	YES
3. Fire Hazard:	NO
4. Sudden Release of Pressure Hazard:	NO
5. Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

None of the components of this material are found on the regulatory lists indicated.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;
(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:

This Material Safety Data Sheet has been revised to comply with the

USED MOTOR OIL

ANSI Z400.1 Standard. Changes have also been made throughout this MSDS. Please read the entire document.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

GARDEN GROVE



FIRE DEPARTMENT

HAZARDOUS MATERIALS DISCLOSURE PROGRAM

REPORTING FORMS PACKET: PART 2

BUSINESS EMERGENCY PLAN SHORT VERSION

**THE FOLLOWING FORMS ARE FOR USE IN THE EVENT OF AN
ACTUAL OR THREATENING HAZARDOUS MATERIALS
EMERGENCY.**

**FILL THESE FORMS OUT COMPLETELY AND BE READY TO
HAND THEM TO THE FIRE DEPARTMENT PERSONNEL WHEN
THEY ARRIVE AT THE EMERGENCY SCENE.**

IN THE EVENT OF AN EMERGENCY,

CALL 911

**GARDEN GROVE FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE PROGRAM**

BUSINESS EMERGENCY PLAN

Personnel Emergency Notifications and Responsibilities

Employee Evacuation and Staging Areas:

1. The type of alarm signal that will be used to initiate an evacuation at the facility:
(vocal, paging system, manual alarm, etc.)

VOCAL, MANUAL

2. All employees shall be trained to evacuate the facility through at least one exit. Alternate exit routes shall be designated if available.
3. Staging areas shall be designated for all employees. Staging areas will be the location that all employees shall report to in the event of an emergency.

One person shall be designated to account for all personnel at the staging area. That person will be responsible for meeting the incoming Fire units and reporting the conditions known about the incident.

The Staging area is at the following location as shown on your site plan map.

E 3 Front Parking lot

Employee Responsibilities:

At least one employee shall be responsible for the following minimum requirements in the event of an emergency response by the Fire Department.

1. Notify employees. Initiate evacuation procedures.
2. Notify the Garden Grove Fire Department. Dial 911
3. Try to identify the nature of the incident.
4. Report to the staging area and account for evacuated employees.
5. Report to the incoming fire units.
6. Activate any emergency mitigation procedures that are available at your business.
(List below any mitigation procedures specific to your business, if any.)

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**GARDEN GROVE FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE PROGRAM**

BUSINESS EMERGENCY PLAN

Personnel Emergency Notifications and Responsibilities

Prevention

All materials are stored, used and handled within the guidelines of the Uniform Fire Code, N.F.P.A. standards, California Administrative Code, Titles 19 and 20.

This section is meant to initiate a Prevention Plan at your business and to assist in preventing a release, or threatened release, of a hazardous material. In the spaces provided, place a checkmark by the preventive actions which have been initiated by your business to abate hazards relating to hazardous material handling, use of storage.

Consideration shall include:

1. Drum storage and/or above ground tank storage areas:
 - a Isolation and separation of incompatible materials
 - b Diking areas to contain spills
 - c Storage on paved ground

2. Compressed and/or cryogenic gas storage areas:
 - a Cylinders stored upright and secured
 - b Isolation and/or separation of incompatible cylinders (oxygen and flammable gases, etc.)

3. General:
 - a Safe work practices are exercised in daily routines.
 - b Employees who handle hazardous materials are properly trained.
 - c Material Safety Data Sheets (MSDS) readily available for each hazardous material on the premises.
 - d Labeling of all materials and storage areas with the product name and hazards associated with the product (drums, piping, tanks, etc.)
 - e Uniform Fire Code (UFC) requires separation between outside hazardous material storage area or tanks and combustible materials (wood, bush, etc.)
 - f Posting of "No Smoking" signs where appropriate.

GARDEN GROVE FIRE DEPARTMENT

BUSINESS EMERGENCY PLAN

A BUSINESS IS REQUIRED BY LAW TO NOTIFY THE GARDEN GROVE FIRE DEPARTMENT WITHIN 30 DAYS OF ANY OF THE FOLLOWING EVENTS:

1. Change of business address.
2. Change of business ownership
3. Change of business name
4. Cessation of business operation (quitting business)
5. Use or handling of a previously undisclosed hazardous material
6. A 100% increase in the quantity of a previously disclosed hazardous material

Your business is required by State law to retain a copy of this entire Business Plan, chemical inventory, material safety data sheets and site maps, for review by Fire Department personnel. State where your disclosure and Emergency Business Plan will be kept.

FILE CABINET IN FRONT OFFICE

GRID # E5

Show location on site map also using symbol in the legend.

Note: A fee is charged for a replacement copy from the Garden Grove Fire Department.

I CERTIFY, UNDER PENALTY OF PERJURY, THAT THE ENCLOSED INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

SIGNATURE: William E. Eberhart
NAME: William E. EBERHART
TITLE: Manager
DATE: 2-17-00



**GARDEN GROVE FIRE DEPARTMENT
ENVIRONMENTAL PROTECTION SECTION**
11301 Acacia Parkway
Garden Grove, CA 92840
Business: 714 741-5600 Haz Mat: 714 741-5636

**Hazardous Materials Business Emergency Plan And
Inventory Certification Statement**

Business Name: H+J AUTO REPAIR

Telephone: 714) 890-1336

Site Address: 7511 CHAPMAN AVE

Zip Code: 92841

The California Health & Safety Code, Division 20, Chapter 6.95, Section 25505(c) and Section 25503.3(c) provide the following:

A business that handles hazardous materials shall review AND certify their Hazardous Materials Business Emergency Plan (HMBEP) once every three years from the date of acceptance by the Garden Grove Fire Department. A business may comply with the annual chemical inventory reporting requirement by submitting a certification statement to the Garden Grove Fire Department. **A business may not utilize this certification to meet the annual inventory submission requirements of the Emergency Planning and Community Right to Know Act (Section 11022, Title 42, United States Code).**

Note: A business may comply with the annual inventory reporting requirements using this certification statement if both of the following apply:

1. The business has previously filed an inventory reporting form and;
2. The business attests to the following:
 - The information contained in the annual inventory form most recently submitted to the Garden Grove Fire Department is complete, accurate, and up to date.
 - There has been no change in the quantity of any hazardous material as reported in the most recently submitted annual inventory form.
 - No hazardous material subject to the inventory requirements is being handled that is not listed on the most recently submitted annual inventory form.

THIS IS TO CERTIFY THAT THE HMBEP AND/OR CHEMICAL INVENTORY HAS BEEN REVIEWED.
(Please check applicable boxes.)

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Print Name Janet Chen

Signature [Handwritten Signature]

Job Title CFO

Date 11/29/05

White Copy - Return to Garden Grove Fire Department
HMBEP certification.doc

Yellow Copy - Retain for Business Records

INSPECTOR: JIM GOETZLE



**GARDEN GROVE FIRE DEPARTMENT
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Inventory Certification Statement**

Business Name: H&J Auto Repair Telephone: 714 890.1336
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Print Name Henry Wang Signature [Handwritten Signature]
Job Title Business Owner Date 6/2011



Hazardous Material Disclosure

Business Information / Chemical Inventory / Business Emergency Plan



GARDEN GROVE FIRE DEPARTMENT
 11301 Acacia parkway
 Garden Grove, CA 92840
 Bus. (714) 741-5600 Fax (714) 741-5640
 Hazardous Materials Coordinator
 (714) 741-5636

Address: 7511 Chapman Ave
 Occupant or DBA: H+J Auto Repair
 Owner/Manager: Henry Wang

Date: 08/25/2008
 File No: 450
 Phone: (714) 990-1336

California Health and Safety Code, Section 6.95, you are required to properly complete the Business Emergency Plan (BMP) packet. You are required to return the BEP packet, Hazardous Materials Disclosure Forms, and all material safety data sheets within fifteen (15) days to the Garden Grove Fire Department. HazMat Coord. (714) 741-5636

An inspection at the above location/occupancy revealed the following violation(s):

Violation(s): CA Health and Safety Code Chapter 6.95, Article 1 and Title 19, §2729 et seq., California Code of Regulations (CCR)

- Complete Hazardous Materials Disclosure packet, HSC Chapter 6.95, Title 19 Div 2 Chapter 3, CFC 8001.3.2
- Failure to submit a Business Emergency Plan. [HSC 25505(a)(1)]; CFC 8001.3.2
- Failure to review and/or revise the Business Emergency Plan as required [HSC 25505(b)&(c)]
- Chemical inventory is incomplete and/or requires update. [HSC 25509]
- The Emergency Response Plan is inadequate and/or does not address the following issues and shall be immediately revised and resubmitted: [HSC 25504(b)&(c)]
 - Notification Procedures
 - Mitigation Procedures
 - Evacuation Procedures
 - Employee Training
- Business Owner/Operator page is incomplete or needs to be updated. [HSC 25509]
- Failure to provide name, title, and 24-hour number of emergency contact(s). [HSC 25509(a)(7)]
- Site Map is incomplete or insufficient. [HSC 25509]
- Failure to report a release or threatened release. [HSC 25507]
- Failure to report a change in business or chemical inventory within 30 days of the following event(s): [HSC 25510]
 - 100% or more increase in the quantity of a disclosed material
 - Addition of a previously undisclosed material
 - Change in business address
 - Change in business ownership
 - Change of business name
 - Other (See comments below):

Violation(s): California Fire Code 2001, Articles 79 & 80, Title 19 Part 9, California Code of Regulations (CCR)

- Provide for secondary containment for hazardous materials liquids and solids (CFC 8003.1.3.3)
- Provide spill control for hazardous materials liquids (CFC 8003.1.3.2)
- Provide approved cabinet if more than 10 gallons of flammable liquids (CFC 7902.5)
- Provide placarding and signs (NFPA 704, CFC Article 79 §7901.9, Article 80 §8001.7-8)
- No Violations Found

Additional Violations and/or Notes:

Responsible Party: [Signature] Re-inspection Date: _____

The above are violations of California law and require immediate correction. Failure to correct violations is subject to civil penalties.

Fire Dept. Inspector: R. Walden ID #: 3703

Condition Upon Re-inspection: _____ Date: _____



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ENVIRONMENTAL PROTECTION SECTION**

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**Hazardous Materials Business Emergency Plan And
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Print Name Janet Chen
Job Title CEO

Signature [Signature]
Date 8/25/08



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Print Name Henry Wang / Janet Wang Signature [Signature]
Job Title Secretary Date 3/1/01