LAUNDRY DETERGENT

Conditions to avoid: NA

SECTION VI HEALTH HAZARDS

Acute: Eye burns Chronic: Eye burns

Signs & Symptoms of Exposure: Eye irritation

Skin irritation

Medical Conditions Generally N.A.

Aggravated by Exposure:

Carcinogen or Potential Carcinogens: NONE

EMERGENCY FIRST AID:

EYES: Flush with water, call physician immediately.

SKIN: Flush with water, call physician if irritation persists.

INTERNAL: Induce vomiting, call a physician immediately.

ROUTES OF ENTRY:

1. Inhalation : NA

2. Eyes : Powder can cause eye burns 3. Skin : Powder may cause skin irritation

4. Ingestion : Will cause throat and stomach irritations

SECTION VII SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Handling and storage: Store in dry area

Keep closed when not in use

Other precautions : NONE

In case of spill : Sweep up material. Wash residue to drain with large

amounts of water.

Waste Disposal : Dispose of in accordance with all federal, State, and

Local pollution control regulation.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: NA

Ventilation : Avoid dust accumulation Protective Gloves : NA Eye Protection : Safety Glasses

: NA Other.

Sodium Tripoly Phosphate

Hygienic Practices : Wash thoroughly after handling

SECTION IX COMMUNITY RIGHT TO KNOW LIST

Chemical Name CAS. No

7758-29-4

Sodium Carbonate 497-19-8

Sodium Sulfate 7757-82-6

6834-92-0 Sodium Metasilicate

1330-43-4 Sodium Tetraborate

LAUNDRY DETERGENT

Sodium Dodecylbenzene Sulfonate

25155-30-0

Ethoxylated Alcohol

127087-87-0

NA = Not applicable

NE = None established

Fantastic

*

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 1599592

PRODUCT NAME(S) : FANTASTIK (R) All Purpose Spray Cleaner

PRODUCT IDENTIFICATION : MSDS Code: 20283 (Canada)

DATE OF MSDS : 1997-10

*** MANUFACTURER INFORMATION ***

MANUFACTURER : Dowbrands Canada Inc

Affiliate of DowBrands, L.P.

ADDRESS : Post Office Box 68511

Indianapolis Indiana

U.S.A. 46268

EMERGENCY TELEPHONE NO.: 800-561-6869 (24-Hour)

Message from DowBrands Canada Inc: NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another, it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws.

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET - CANADA

1. PRODUCT IDENTIFICATION

Product Name: FANTASTIK (R) All Purpose Spray Cleaner

MSDS Code: 20283 (Canada)

Chemical Formula: Mixture
CAS Number: None

INGREDIENTS

MATERIAL CAS NUMBER PERCENT
2-Butoxyethanol 111-76-2 < 5

EXPOSURE LIMIT/SOURCE: 25 PPM TWA (skin)/ACGIH Skin and eye irritant/Mfr.

Sodium Silicate 1344-09-8 < 2

EXPOSURE LIMIT/SOURCE: None established/ACGIH

Possible eye and skin irritant/Mfr

Sodium hydroxide

1310-73-2

< 1

EXPOSURE LIMIT/SOURCE: 2 mg/m3 Ceiling/ACGIH Skin and eye irritant/Mfr.

Also contains water, dye, perfume and other essential ingredients. Ingredients not precisely identified are proprietary.

3. HAZARDS IDENTIFICATION

CAUTION: CORROSIVE. AVOID CONTACT WITH EYES. FIRST AID TREATMENT: IF SPLASHED IN EYES OR ON SKIN, FLUSH THOROUGHLY WITH WATER. CONTAINS SODIUM HYDROXIDE.

EFFECTS OF OVEREXPOSURE:

Eyes: May cause mild irritation.

No irritation likely from incidental contact. May cause mild

irritation from prolonged or repeated contact to skin.

Ingestion: Single dose oral toxicity is considered to be low. Inhalation: No adverse effects are anticipated from inhalation.

4. FIRST AID MEASURES

If splashed in eyes flush thoroughly with water. Eyes: Skin: If splashed on skin flush thoroughly with water. Ingestion: Drink a glassful of water. Get medical attention.

Inhalation: If discomfort from prolonged inhalation develops, remove patient

to fresh air and get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:

Flammability Limits:

Extinguishing Media:

Fire and Explosion Hazards:

None

Fire Fighting Equipment:

None

None

None

Fire Fighting Equipment: Fire fighters should wear self-contained breathing apparatus and protective clothing.

6.. ACCIDENTAL RELEASE MEASURES

Small Spills: Absorb and wipe up or rinse away with water.

Large Spills: Dike far ahead of spill and collect for later disposal. Waste Disposal: Follow all local, state and federal regulations. Notify

waste treatment plant in case of large spill.

7. HANDLING AND STORAGE

DO NOT USE ON NON-URETHANE VARNISH OR GLASS. IF SPRAYED ON GLASS, RINSE

IMMEDIATELY. AFTER USE SNAP COVER DOWN. STORE OUT OF REACH OF CHILDREN.

8. PERSONAL PROTECTION

Respiratory Protection: Not required under normal conditions Ventilation: Normal

Other Protective Measures: Not required under normal conditions Protective Gloves: Not required under normal conditions

Fantastic

Eye Protection: Not required under normal conditions _______ 9. PHYSICAL AND CHEMICAL PROPERTIES Boiling Point, 760 mm Hg: 99.61 deg C Vapor Density: 12.2 Vapor Pressure at 20 deg C: 15.4 mm Hg
Volatiles by Volume @ 70 deg F, %: Not applicable Specific Gravity (20/4): 1.00 Solubility in Water: Complete Evaporation Rate (water = 1): Not applicable 12.4 pH: Appearance and Odor: Clear blue colored liquid with fresh scent ______ 10. STABILITY AND REACTIVITY Stability: Stable Stability: Stab.
Conditions to Avoid: None
Hazardous Decomposition: None None Incompatibility: Hazardous Polymerization: Will not occur 11. TOXICOLOGICAL INFORMATION Tested and labeled to CPSC/FHSA requirements. The Acute Dermal LD50 is >2g/kg on rabbits. The Acute Oral LD50 is >5g/kg in rats. 12. OTHER INFORMATION HAZARD RATING: Fire: [0] Toxicity: [1] HAZARD RATING SCALE: Toxicity: [1] Reactivity: [0] 0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme ______ Effective Date: 10/97 Supersedes: 10/96
Prepared by: BBW Reviewed by: KJW; JPD; BBW; CJM This MSDS has been revised in the following section(s): Format

(R) = Trademark of DowBrands

< = less than > = greater then ca = approximately

MSDS

Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 744387

PRODUCT NAME (S) : COMET Cleanser

DATE OF MSDS : 1994-03

CURRENCY NOTE : MSDS Confirmed Current: 1996-04-22

*** MANUFACTURER INFORMATION ***

MANUFACTURER

: Flexo Products Limited

ADDRESS

: 4777 Kent Avenue

Niagara Falls Ontario

Canada L2H 1J5

Telephone: 905-354-2723

Fax: 905-354-1301

EMERGENCY TELEPHONE NO.: 613-996-6666 (CANUTEC)

Message from Flexo Products: Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that user of the material has been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and the supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If the user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8466), or CSST in Montreal, Quebec (514-873-3990).

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR

: Flexo Products Limited

ADDRESS

: 4777 Kent Avenue

Niagara Falls Ontario L2H 1J5 Canada

Telephone: 905-354-2723

Fax: 905-354-1301

EMERGENCY TELEPHONE NO.: 613-996-6666 (CANUTEC)

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

COMET

HMIS RATING

comet

Flammability [0] Health [1] Reactivity [2] Personal Protection [B] SECTION I - MATERIAL IDENTIFICATION AND USE Material Name Identifier: COMET Cleanser Material Use: Chlorinated Pwd Cleanser WHMIS Classification: Class D, Division 2B SECTION II - HAZARDOUS INGREDIENTS Ingredient Wt. 8 CAS # Sodium Carbonate (soda ash) 7-13 479-19-8 Not Avail. LD50: 1.86g/kg Oral Rat LC50: Not Avail. Calcium Hydroxide 1-5 1305-62-0 Not Avail. LD50: 7.34g/kg Oral Rat LC50: Not Avail. Linear Alkybenzene 1-5 68411-30-3 Not Avail. Sulphonate (C12LAS) LD50: 0.65-1.26g/kg Oral Rat LC50: Not Avail. Sodium Hypochlorite (bleach) .1-1.0 7681-52-9 Not Avail. LD50: 1-2g/kg Oral Rat LC50: Not Avail. SECTION III - PHYSICAL DATA Physical State: Powder Specific Gravity: 0.94 Colour: Green Viscosity: Not Appl. % Volatile: Not Appl. pH: 12.3 (25% sol'n) Clarity: Not Appl. Odour: Lemon/Pine Vapour Density (Air=1): Not Applicable Solubility in Water (20 deg C): Miscible Evaporation Rate (Water=1): Not Appl. Boiling Point (deg C): Not Applicable ___________ SECTION IV - FIRE AND EXPLOSION DATA Flammability: Non-Flammable Flash Point (deg C TCC): Not Applicable LEL (% vol) lowest value of components: Not Appl. UEL (% vol) highest value of components: Not Appl. Hazardous Combustion Products: None Known Means of Extinction: CO2, Water or Dry Chemical Special Fire Hazards: None Known

SECTION V - REACTIVITY DATA

comet

Conditions For Chemical Instability: Stable

Incompatibility: Do not mix with toilet bowl cleaner, rust remover, household ammonia or acids. Not recommended for use on silver, soft plastics or rubber.

Hazardous Decomposition Products: None known

SECTION VI - TOXICOLOGICAL PROPERTIES

Route of Entry: Eye. Skin Contact. Inhalation. Ingestion.

Effects of Acute Exposure: Eye-May cause mild to moderate transient eye irritation. Skin Contact-Prolonged or repeated dermal contact with highly concentrated solutions may cause mild transient irritation. Inhalation - None known. Ingestion-May cause mild gastrointestinal irritation with nausea, vomiting and diarrhea.

Effects of Chronic Exposure: None Known.

Irritancy: Hazardous by WHMIS Criteria (eye irritant)

Respiratory Tract Sensitization: None Known.

Carcinogenicity: None Known.

Reproductive Effects: None Known.

Teratogenicity: None Known. Mutagenicity: None Known.

Synergistic Materials: None Known.

SECTION VII - PREVENTATIVE MEASURES

Classes Dubban an account for any large large and account to the contract of t

Gloves: Rubber or neoprene for prolonged use.

Eye Protection: None required for normal use. In instances of dust or slurries, goggles are recommended.

Respiratory Protection: None required with normal use.

Other Protective Equipment: None required

Engineering Controls: None required with normal use.

Leak and Spill Procedure: Sweep up and dispose of as dry scrap in accordance with all applicable regulations.

Waste Disposal: Review fed., prov. and local regulations.

Storage Requirements: Cool, dry storage; avoid moisture to prevent caking.
Minimize dusting when handling.

SECTION VIII - FIRST AID

Eye: Flush with water for 15 min. If irritation persists, see physician.

Skin: Rinse affected area & discontinue use. If irritation persists, seek medical attention. A cold, wet compress may be used to relieve irritation.

Inhalation: Remove to fresh air. If symptoms persist, see a doctor.
Ingestion: Dilute with glass of water and treat symptomatically. If
irritation persists, seek medical attention.

ARESIS OF PERSONS AND SECURIOR SERVICES OF SECURIOR SECUR

SECTION IX - ADDITIONAL INFORMATION

This material safety data sheet applies to the concentrated product. Diluted

versions of this product may have different hazard ratings.

T.D.G. Shipping Name: Not Regulated

P.I.N.: Not Appl. Class: Not Appl.

Prepared by: Flexo Products Limited

Date: March 1994

Page 3

BLEACH WASHING CLOTHES

MSDS

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 337877

PRODUCT NAME(S) : BLEACH, JAVEL WATER

DATE OF MSDS : 1991-07-01

*** MANUFACTURER INFORMATION ***

MANUFACTURER : Welland Chemical Ltd

ADDRESS : 1201 Scott Road

> Sarnia Ontario Canada N7T 7J7

EMERGENCY TELEPHONE NO.: 519-336-2287

Message from Welland Chemical: This Product Safety Data Sheet is offered solely for your information, consideration and investigation. W C L provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of data herein.

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : Welland Chemical Ltd

ADDRESS : 1201 Scott Road

> Sarnia Ontario Canada N7T 7J7

EMERGENCY TELEPHONE NO. : 519-336-2287

*** MATERIAL SAFETY DATA ***

Material Safety Data Sheet

SECTION 1--MATERIAL IDENTIFICATION & USE

TRADE NAME (COMMON NAME OR SYNONYM)

BLEACH, JAVEL WATER

USES

Water and sewage treatment.

CHEMICAL NAME

SODIUM HYPOCHLORITE LIQUOR (approx 12-15% available chlorine)

FORMULA NaoCl

SECTION 2--HAZARDOUS INGREDIENTS

CAS NO. UN NO. HAZARDOUS INGREDIENTS

<15 7681-52-9 1791 SODIUM HYPOCHLORITE

M S D

* Canadian Centre for Occupational Health and Safety *
* * * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 468979

PRODUCT NAME(S) : CHEVRON Supreme Unleaded Gasoline
PRODUCT IDENTIFICATION : CHEVRON PRODUCT NUMBER(S): CPS201060

MSDS Number: 1376

CHEVRON PRODUCT SYSTEM ID: CPS 201060

DATE OF MSDS : 1989-07-25

Message from Chevron Canada Limited: The information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent as 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.

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR :

: CHEVRON CANADA LIMITED

ADDRESS

: 1500 - 1050 West Pender Street Vancouver British Columbia

Canada V6E 3T4

Telephone: 604-668-5300

EMERGENCY TELEPHONE NO.: 800-457-2022

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

MATERIAL: CHEVRON SUPREME UNLEADED MSDS NUMBER: 1376

GASOLINE

CHEVRON PRODUCT SYSTEM ID: CPS 201060

MATERIAL USE: Motor Fuel

HAZARDOUS INGREDIENTS

CONTROLLED PRODUCTS CONCENTRATION ID

CAS, UN/NA

Toluene 10 - 30 108-88-3

EXPOSURE LIMITS: 100 ppm

LD50 LC50 (species/route): Not Applicable

Kylene 10 - 30 1330-20-7

EXPOSURE LIMITS: 100 ppm

LD50 LC50 (species/route): Not Applicable Benzene 1 - 571-43-2 EXPOSURE LIMITS: 1 ppm LD50 LC50 (species/route): Not Applicable n-Hexane 1 - 5 110-54-3 EXPOSURE LIMITS: 50 ppm LD50 LC50 (species/route): Not Applicable 1 - 5 Cyclohexane 110-82-7 EXPOSURE LIMITS: 300 ppm LD50 LC50 (species/route): Not Applicable 1 - 5 Ethylbenzene 100-41-4 EXPOSURE LIMITS: 100 ppm LD50 LC50 (species/route): Not Applicable Naphthalene 1 - 5 91-20-3 EXPOSURE LIMITS: 10 ppm LD50 LC50 (species/route): Not Applicable WHMIS CLASSIFICATION: Class B2, D2A TDG CLASSIFICATION: Gasoline, Class 3.1, UN 1203, Pkg. Grp. II TOXICOLOGICAL PROPERTIES OF PRODUCTS - SUMMARY LD50 (Species & Route): Not Available LC50: Not Available Irritancy: Eye Irritant @ 500 ppm Skin Irritant Sensitization: Not Applicable Exposure Limits: 300 ppm Synergistic Materials: Not Applicable [X] Carcinogenicity [] Reproductive Effect [] Teratogenicity [] Mutagenicity Prepared by: CHEVRON ENVIRONMENTAL HEALTH CENTRE, INC. P.O. BOX 4054, RICHMOND, CA 94804-0054 EMERGENCY PHONE: (800) 457-2022 Revision/Date: Rev. 12, 07/25/89 Material Safety Data Sheet ______

CPS201060

This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS. Discard any previous edition of this MSDS.

The Chevron MSDSs have been reformatted and expanded to provide you with

CHEVRON Supreme Unleaded Gasoline

useful hazard warnings and health evaluations and to facilitate your compliance with local, State and Federal regulations.

compliance with local, State and Federal regulations.

1. PRODUCT IDENTIFICATION

CHEVRON Supreme Unleaded Gasoline

DANGER

- HARMFUL OR FATAL IF SWALLOWED
- VAPOR HARMFUL
- LONG-TERM EXPOSURE TO VAPOR HAS CAUSED CANCER IN LABORATORY
 ANIMALS
- MAY CAUSE EYE AND SKIN IRRITATION
- EXTREMELY FLAMMABLE
- KEEP OUT OF REACH OF CHILDREN

CHEVRON PRODUCT NUMBER(S): CPS201060 PRODUCT INFORMATION: (800) 582-3835

2. FIRST AID

EYE CONTACT:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary, however, if irritation persists, see a doctor. SKIN CONTACT:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

INHALATION:

If respiratory irritation or any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice.

DO NOT make person vomit unless directed to do so by medical personnel. If
medical advice cannot be obtained, then take the person and product container
to the nearest medical emergency treatment center or hospital. Note to
Physician: Ingestion of this product or subsequent vomiting can result in
aspiration of light hydrocarbon liquid which can cause pneumonitis.

3. IMMEDIATE HEALTH EFFECTS

EYE CONTACT:

This substance is slightly irritating to the eyes and could cause prolonged (days) impairment of your vision. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include pain, tears,

swelling, redness, and blurred vision. Eye contact with the vapors, fumes, or spray mist from this substance could also cause similar signs and symptoms. SKIN IRRITATION:

Prolonged or frequently repeated contact may cause the skin to become cracked or dry from the defatting action of this material.

DERMAL TOXICITY:

If absorbed through the skin, this substance is considered practically non-coxic to internal organs.

RESPIRATORY/INHALATION:

This substance is slightly toxic to internal organs if inhaled. The degree of

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MSDS
      * Canadian Centre for Occupational Health and Safety
      * * * * * * * * * * * * * * Issue : 2000-1 (February, 2000) *
                         *** IDENTIFICATION ***
MSDS RECORD NUMBER
                     : 1773737
PRODUCT NAME (S)
                     : Quaker State Passenger Car & Light Truck
                       Motor Oils
PRODUCT IDENTIFICATION : Product Numbers: Deluxe SAE 5W30: 29043,
                       06043, 07043, 35043, 36043, 37043, 19043
                        Product Numbers: Deluxe SAE 10W40:
                        29044, 06044, 07044, 35044, 36044, 19044
                        Product Numbers: Performance SAE 20W50:
                        29101, 06101, 35101, 36101, 19101
                        Product Numbers: Super Blend SAE 10W30:
                        29042, 03042, 06042, 07042, 35042, 36042,
                        37042, 19042
DATE OF MSDS
                     : 1998-05-21
                     *** MANUFACTURER INFORMATION ***
MANUFACTURER
                     : QUAKER STATE INC
ADDRESS
                      : 1101 BLAIR ROAD
                       BURLINGTON ONTARIO
                       CANADA L7M 1T3
                       Telephone: 905-335-5577 800-263-6200
EMERGENCY TELEPHONE NO.: 800-567-7455 (24 HOURS)
                       *** MATERIAL SAFETY DATA ***
           Material Safety Data Sheet
        Material Name: Quaker State
         Passenger Car & Light Truck
        Motor Oils
             * * * Section 1 - Chemical Product and Company Identification
    Product Numbers: Deluxe SAE 5W30 Deluxe SAE 10W40 Performance SAE 20W5
0 Super Blend SAE 10W30
                          29043
                                          29044
                                                              29101
         29042
                          06043
                                         06044
                                                              06101
         03042
                          07043
                                         07044
                                                             35101
         06042
                          35043
                                  35044
                                                             36101
         07042
                          36043
                                  36044
                                                             19101
```

```
35042
                           37043
                                            19044
          36042
                           19043
          37042
          19042
      Chemical Name: Motor Oil
     Manufacturer Information
      Quaker State Corporation
                                                  Phone: 1- 800- 263-6200, 9
05- 335-5577
      1101 Blair Rd.
      Burlington, Ont. Canada
                                                  Emergency # 1- 800- 567- 7
455 (24 hours)
      L7M 1T3
                * * * Section 2 - Composition / Information on Ingredients
      CAS #
                  Component
   |Percent |
                  |Lube Oil Additive with Zinc Salt of Dialkyl Dithiophospho
      Not
ric |*see
      Available | Acid, Borated Polyisobutenyl Succinic Anhydride Nitrogen
    |Commentary |
                   |Functionalized Dispersant, Magnesium Alkylaryl Detergent
and |1)
                   |Solvent Dewaxed Mineral Oil
   |Not
|6-10 |
                  |Lube Oil Additive with Ethylene and Propylene Copolymer
      Available
              | Lube Oil Additive with Dialkyl Fumarate and Vinyl Acetate
      Not
   |*see |
      |Available |Copolymer
```

| Commentary | | | | |
|---|-------------------|---------------------------|------------------|--|
| Blend | | lates, Solvent Dewaxed He | eavy Paraffinic | |
| Blend | | lates, Hydrotreated Heavy | | |
| | | | | |
| S.Bl.SAE 10W30 | Del. SAE 5W30 | Del. SAE 10W40 '''' | Perf. SAE 20W50 | |
| *Commentary 1)
6- 9 | 10- 17 | 15- 22 | 8- 14 | |
| *Commentary 2) | 1- 12 | 1- 3 | 0.5- 3 | |
| Component Information/Information on Non-Hazardous Components The maximum percentage of the petroleum distillate and/or residual oil blend contained in this product is: 82-88 %, *except for 10W40: 78%. | | | | |
| All mineral oils used olvent refined. | d in this product | have been severely hydro | treated and/or s | |
| This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). | | | | |
| | | | | |
| * * * Section 3 - Hazards Identification * * * | | | | |
| Emergency Overvi | iew | | | |
| | | to brown petroleum disti | llate mixture. T | |
| cause irritation to the eyes. Oil mists may be irritating to the respiratory sy | | | | |
| | vapors may be rel | eased upon combustion of | product. Extingu | |
| ish fire with carbon dioxide, dry chemical, foam or water fog. | | | | |
| Hazard Statements This product is irritating to the eyes, and may be irritating to the skin and r | | | | |
| espiratory | | | | |
| system. Pulmonary aspiration hazard if swallowed. Potential Health Effects: Eyes | | | | |
| This product may cause irritation to the eyes. Potential Health Effects: Skin | | | | |
| This product may cause irritation to the skin. Prolonged or repeated contact with skin may cause | | | | |
| mild irritation and possibly dermatitis. Potential Health Effects: Ingestion | | | | |
| No significant adverse effects are expected upon ingestion of the product. Inge stion of this | | | | |
| product may cause nausea, vomiting and diarrhea. Small amounts of this product, if aspirated | | | | |
| into the lungs, may ca | use mild to sever | re pulmonary injury, poss | ibly death. | |

| Potential Health Effects: Inhalation |
|--|
| Low vapor pressure makes inhalation unlikely at standard temperatures and the standard temperatures are maked to the standard temperature and the standard temperature at the standard tem |
| ures, inhalation |
| of oil mists or fumes can cause irritation of the nose, throat and upper respiratory tract. |
| Repeated and prolonged overexposure to oil mists may result in droplet deposit: |
| on, oll granuloma |
| formation, inflammation and increased incidence of infection. If this product s heated over 70 |
| C (155 F), hydrogen sulfide gas may be released. Hydrogen sulfide is irritating |
| g to the eyes and |
| respiratory system. Continued overexposure may cause respiratory collapse, con |
| a, and death without necessarily any warning odor being sensed. |
| THE PROJECT OF SHARPS IN THE PROPERTY OF SHAPES AND A SHAPE AND A |
| HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.: gloves, gogs |
| Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Se |
| vere * = |
| Chronic hazard |
| |
| |
| * * * Section 4 - First Aid Measures * * * |
| ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
| First Aid: Eyes |
| Flush eyes with large amounts of water for 15 minutes. Get medical attention or |
| advice. First Aid: Skin |
| Remove contaminated clothing. Wash affected area with mild soap and water. Laur |
| der contaminated |
| clothing before reuse. If leather articles become saturated they should be disc
arded. |
| First Aid: Ingestion |
| Due to the physical nature of this material, ingestion is unlikely to occur. If |
| ingestion of a large amount does occur, seek medical attention. Call your local poison control |
| center or get |
| medical attention. |
| First Aid: Inhalation
Remove to fresh air. If not breathing, give mouth to mouth resuscitation. If po |
| wder or dust from |
| this material is inhaled, remove the person immediately to fresh air. Call a ph |
| ysician. First Aid: Notes to Physician |
| This material, if aspirated into the lungs, may cause chemical pneumonitis; tre |
| at the affected |
| person appropriately. |
| |
| * * * Section 5 - Fire Fighting Measures * * * |
| |
| |
| |
| |

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Flash Point: 400 F (204 C) *except for Method Used: Cleveland Ope
n Cup
      5W30: 385 F (196 C)
      Upper Flammable Limit (UFL): Not determined Lower Flammable Limit (LFL
): Not determined
      Auto Ignition: Not determined
                                            Flammability Classificatio
n: IIIB
      _____
      Rate of Burning: Not determined
    General Fire Hazards
This product is combustible at high temperatures.
    Hazardous Combustion Products
Carbon dioxide, carbon monoxide, aldehydes, oxides of sulfur, calcium, nitrogen
, magnesium,
phosphorus and zinc, and other hydrocarbon fractions. Hydrogen sulfide and alky
1 mercaptans and
sulfides may also be released.
    Extinguishing Media
However, water may be the most suitable extinguishing media due to its cooling
properties on
molten compounds. Water spray or foam for large fires.
     Fire Fighting Equipment/Instructions
Firefighters should wear full-face, self contained breathing apparatus and impe
rvious protective
clothing. Firefighters should avoid inhaling any combustion products.
     NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0 Other:
    Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 =
Severe
                    * * * Section 6 - Accidental Release Measures * * *
     Containment Procedures
Eliminate all sources of ignition or flammables that may come into contact with
 a spill of this
material. Stop the flow of material, if this is without risk.
     Clean-Up Procedures
Wear appropriate protective equipment and clothing during clean-up. Absorb with
inert absorbent
such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover u
sing pumps. Scoop
up used absorbent into drums or other appropriate container. Do not allow the s
pilled product to
enter public drainage systems or open water courses. Surfaces may become slippe
ry after
spillage.
    Evacuation Procedures
```

Persons not wearing protective equipment should be excluded from area of spill

ORANGE HAND CLEANER

disposal: Dispose of uncontaminated material through

sewage system with permission of the authority

responsible for that system.

Follow EPA and local regulations.

EPA Hazardous Waste

Number NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted

Hazard Class or

Division: Unrestricted

Identification Number: None Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted Class or Division: Unrestricted

UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: No California Proposition 65 chemicals are known

to be present at or above the No Significant

Risk level.

LOCTITE CORPORATION 08/13/99

> ROCKY HILL, CONNECTICUT 06067 EMERGENCY PHONE: (203) 571-5100

MATERIAL SAFETY DATA SHEET

Page 05 of 05

Product Name: Canadian Fast Orange (R) Pumice Lotion Hand Cleaner

w/ Corn Huskers Lotion(R)

Item No.: 20856

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: Fire Hazard: Reactivity Hazard: 0

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1 Flammability Hazard: 2 Reactivity Hazards: 0

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

C. J. Michaels Prepared By:

Title: Health and Safety Dept.

ORANGE HAND CLEANER

Company: Loctite Corp.,

1001 Trout Brook Crossing, Rocky Hill, CT 06067

(24hr.) Phone: (860) 571-5100

Revision Date: January 27, 1999 Revision: 0001

until clean-up has been completed. Special Procedures Remove soiled clothing and launder before reuse. Avoid skin contact and inhalat ion of vapors

during disposal of spills.

* * * Section 7 - Handling and Storage * * *

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Avoid breathi ng fumes if this

product is used at high temperatures. Avoid the generation of oil mists. Wash h ands after

handling and before eating. Launder work clothes frequently.

Storage Procedures

Keep the container tightly closed and in a cool, well-ventilated place. Do not store this

material in open or unlabeled containers. Store away from strong oxidizers. Emp ty containers may

retain product residue including flammable or explosive vapors. Do not cut, dr ill, grind, or

weld near full, partially full, or empty product containers.

* * * Section 8 - Exposure Controls / Personal Protection *

Exposure Guidelines A: General Product Information

If oil mists are generated, observe the OSHA exposure limit of 5 mg/m3. The fol lowing are

recommended exposure limits for hydrogen sulfide: OSHA PEL 8H TWA 10 ppm (14 m g/m3), Ceiling

20 ppm and ACGIH 8H TWA 10 ppm (14 mg/m3). Attempts should be made to eliminate all contact with

skin and eyes, and to limit inhalation exposure.

B: Component Exposure Limits

No information is available.

Engineering Controls

Use general ventilation. Use in a well-ventilated area. If product is heated ab ove 70 C (155 C),

hydrogen sulfide vapors may be released. Ventilation should be sufficient to k eep hydrogen

sulfide levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin

Use impervious gloves for prolonged contact or any contact with used oil. The u se of neoprene

gloves is recommended.

Personal Protective Equipment: Respiratory When dusts or thermal processing fumes are generated and ventilation is not suf effectively remove them, appropriate NIOSH/MSHA approved respiratory protection provided. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist. Personal Protective Equipment: General Use good hygiene when handling petroleum product. * * * Section 9 - Physical & Chemical Properties * * * Appearance: Light to Dark Amber Odour: Mil Physical State: Liquid pH: Not Vapor Pressure: Negligible Vapor Density: Not determined Boiling Point: Not determined Melting Point: Not determined Solubility (H2O): Negligible in water Specific Gravity: 0.8 6- 0.90 @ 60 F ______ Viscosity: * s Freezing Point: Not determined ee commentary ______ Percent Volatile: Negligible Physical Properties: Additional Information None *Commentary Deluxe SAE 5W30 Deluxe SAE 10W40 Performance SA E 20W50 Super Blend SAE 10W30 Viscosity 61.8- 69.2 cSt @ 40 C 105- 120 cSt @ 40 C 160- 187 cSt @ 40C 68.8- 77.7 cSt @ 40 C 10.5- 11.0 cst @ 100 C 15.0- 15.5 cst @ 100 C 19.0- 19.5 cst @ 100 C 10.5- 11.0 cSt @ 100 C -25 F; -31 C -15 F: -26 C Pour Point -35 F; -37 C -30 F; -34 C

```
* * * Section 10 - Chemical Stability & Reactivity Information
      Chemical Stability
Stable
      Chemical Stability: Conditions to Avoid
Avoid excessive heat and all sources of ignition.
      Incompatibility
Oxidizing agents, acids, halogens and halogenated compounds.
      Hazardous Decomposition
At thermal decomposition temperatures carbon dioxide, carbon monoxide, fumes, s
moke, aldehydes,
oxides of sulfur, sodium, calcium, nitrogen, magnesium, phosphorous, and zinc,
and various
hydrocarbons. Hydrogen sulfide and alkyl mercaptans and sulfides may also be re
leased.
      Hazardous Polymerization
Hazardous polymerization will not occur.
                        * * * Section 11 - Toxicological Information * * *
       Acute Toxicity
A: General Product Information
Based on similar products the LD50 is expected to be greater than 5,000 mg/kg.
 Product has the
ability to cause oil acne on the skin and fibrosis in the lung.
B: Component Analysis - LD50
Petroleum Distillates, Hydrotreated Heavy Paraffinic (64742-54-7)
RTECS: PY8035500
Oral LD50 Rat: >15 gm/kg
Dermal LD50 Rabbit: >5 gm/kg
RTECS: PY8035501
Oral LD50 Rat: >15 gm/kg
Dermal LD50 Rabbit: >5 gm/kg
      Carcinogenicity
A: General Product Information
No data available on the product as a whole. Note that USED oils tend to contai
n higher amounts
of the cancer-causing aromatics, which have been linked to scrotal and lung can
cer in humans.
B: Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NT
     Epidemiology
No data available for product.
     Neurotoxicity
No data available on this product as a whole.
     Mutagenicity
No data available on this product as a whole.
     Teratogenicity
Review of information on components indicates no components at greater than 1.0
```

```
% have
teratogenic effects.
     Other Toxicological Information
Persons with skin or respiratory conditions may be more sensitive to product. T
his product
contains a blend of petroleum distillates and residual oils, all of which have
been solvent
refined or severely hydrotreated. The petroleum distillate and residual oil bl
end consists of
one or more of the components identified by CAS Number in Section 2. Since the
se components
vary with the availability of materials their presence is noted as "blend".
     * * * Section 12 - Ecological Information * * *
______
     Ecotoxicity
No information is available on ecotoxicity of this product. Keep product out of
sewers and
waterways.
     Environmental Fate
No information is available.
                     * * * Section 13 - Disposal Considerations * * *
     US EPA Waste Number & Descriptions
A: General Product Information
Product as shipped does not meet the definition or characteristics of a hazardo
us waste. User
must test waste using methods described in 40 CFR Part 261 to determine if it m
eets applicable
definitions of hazardous wastes.
B: Component Waste Numbers
No information is available.
     Disposal Instructions
Used oil can be returned to a collection center or provided to a licensed recyc
ler. All wastes
must be handled in accordance with local, state and federal regulations.
     * * * Section 14 - Transportation Information * * *
     US DOT Information
     Shipping Name: Not regulated as a hazardous material
     Hazard Class: None
     UN/NA #: None
     Packing Group: None
    International Transportation Regulations
Not regulated as dangerous goods.
     _____
                     * * * Section 15 - Regulatory Information * * *
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US Federal Regulations
A: General Product Information
This product may be classified as an oil under Section 311 of the Clean Water A
ct, and under the
Oil Pollution Act. Discharges of spills into or leading to surface waters that
cause sheen must
be reported to the National Response Center. (1-800-424-8802) All components o
f this product
are listed on the U.S. EPA TSCA Inventory.
B: Component Analysis
None of this products components are listed under SARA Section 302 (40 CFR 355
Appendix A), SARA
Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).
     State Regulations
A: General Product Information
No components require labeling under California Proposition 65.
B: Component Analysis - State
No information is available.
    Other Regulations
A: General Product Information
This product is not considered a controlled product under the Canadian Controll
ed Products
Regulation.
This product has been classified in accordance with the hazard criteria of the
CPR, and the MSDS
contains all the information required by the CPR.
B: Component Analysis - Inventory
           CAS # | TSCA | DSL
          Component
   |EINECS|
                ______
           |Petroleum Distillates, Solvent Dewaxed |64742-65-0 |Yes |Yes
   |Yes |
          |Heavy Paraffinic
           |Petroleum Distillates, Hydrotreated | 64742-54-7 | Yes | Yes
   |Yes |
          |Heavy Paraffinic
                                       C: Component Analysis - WHMIS IDL
No information is available.
                        * * * Section 16 - Other Information * * *
______
N = No; Y = Yes; ppm - parts per million; mg/m3 = milligrams per cubic meter of
air; ACGIH =
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American Conference of Governmental Industrial Hygienists; OSHA = Occupational Safety and Health

Administration; TLV = Threshold Limit Value; NIOSH = National Institute of Occupational Safety

and Health; NTP = National Toxicology Program; IARC = International Agency for Research on

Cancer.

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; Occu pational Safety

and Health; NFPA = National Fire Protection Association. HMIS = Hazardous Material Information

System. CFR = Code of Federal Regulations. HEPA = High Efficiency Particulate A ir EPA =

Environmental Protection Agency; TSCA = Toxic Substance Control Act;

MSDS History

Preparation Information: last revised 02/07/1997. Revision 2.0000: 11/19/199

Revision 2.0000: Section 2 was revised to indicate that the product contains a "blend" of

petroleum distillates and/or residual oils. Section 11 revised to the nature of the product blend.

Prepared by: Sales & Marketing, Quaker State Inc.Phone: 1-800- 263-6200 Date: May 21, 1998

M S D

*

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 468979

PRODUCT NAME(S) : CHEVRON Supreme Unleaded Gasoline
PRODUCT IDENTIFICATION : CHEVRON PRODUCT NUMBER(S): CPS201060

MSDS Number: 1376

CHEVRON PRODUCT SYSTEM ID: CPS 201060

DATE OF MSDS : 1989-07-25

Message from Chevron Canada Limited: The information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent as 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.

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : CHEVRON CANADA LIMITED

ADDRESS : 1500 - 1050 West Pender Street

Vancouver British Columbia

Canada V6E 3T4

Telephone: 604-668-5300

EMERGENCY TELEPHONE NO.: 800-457-2022

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

MATERIAL: CHEVRON SUPREME UNLEADED MSDS NUMBER: 1376

GASOLINE

CHEVRON PRODUCT SYSTEM ID: CPS 201060

MATERIAL USE: Motor Fuel

HAZARDOUS INGREDIENTS

CONTROLLED PRODUCTS CONCENTRATION ID

Toluene 10 - 30 CAS, UN/NA 108-88-3

EXPOSURE LIMITS: 100 ppm

LD50 LC50 (species/route): Not Applicable

Xylene 10 - 30 1330-20-7

EXPOSURE LIMITS: 100 ppm

| CHEVRON Supreme Unleaded Gasoline CPS201060 | CPS201060 | |
|---|--------------------------------------|--|
| Material Safety Data Sheet | | |
| Revision/Date: Rev. 12, 07/25/89 | and one may be due and got offer and | |
| Prepared by: CHEVRON ENVIRONMENTAL HEALTH CENTRE, INC.
P.O. BOX 4054, RICHMOND, CA 94804-0054
EMERGENCY PHONE: (800) 457-2022 | | |
| [X] Carcinogenicity [] Reproductive Effect [] Teratogenicity [] Mutagenicity | | |
| TOXICOLOGICAL PROPERTIES OF PRODUCTS - SUMMARY LD50 (Species & Route): Not Available LC50: Not Available Irritancy: Eye Irritant @ 500 ppm Skin Irritant Sensitization: Not Applicable Exposure Limits: 300 ppm Synergistic Materials: Not Applicable | | |
| WHMIS CLASSIFICATION: Class B2, D2A TDG CLASSIFICATION: Gasoline, Class 3.1, UN 1203, Pkg. Grp. II | | |
| Naphthalene 1 - 5 91-20-3
EXPOSURE LIMITS: 10 ppm
LD50 LC50 (species/route): Not Applicable | | |
| Ethylbenzene 1 - 5 100-41-4 EXPOSURE LIMITS: 100 ppm LD50 LC50 (species/route): Not Applicable | | |
| Cyclohexane 1 - 5 110-82-7 EXPOSURE LIMITS: 300 ppm LD50 LC50 (species/route): Not Applicable | | |
| n-Hexane 1 - 5 110-54-3 EXPOSURE LIMITS: 50 ppm LD50 LC50 (species/route): Not Applicable | | |
| Benzene 1 - 5 71-43-2 EXPOSURE LIMITS: 1 ppm LD50 LC50 (species/route): Not Applicable | | |
| LD50 LC50 (species/route): Not Applicable | 4.7 | |

This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-toknow/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS. Discard any previous edition of this MSDS.

The Chevron MSDSs have been reformatted and expanded to provide you with

useful hazard warnings and health evaluations and to facilitate your compliance with local, State and Federal regulations.

compliance with local, State and Federal regulations.

1. PRODUCT IDENTIFICATION

CHEVRON Supreme Unleaded Gasoline

DANGER!

- HARMFUL OR FATAL IF SWALLOWED
- VAPOR HARMFUL
- LONG-TERM EXPOSURE TO VAPOR HAS CAUSED CANCER IN LABORATORY ANIMALS
- MAY CAUSE EYE AND SKIN IRRITATION
- EXTREMELY FLAMMABLE
- KEEP OUT OF REACH OF CHILDREN

CHEVRON PRODUCT NUMBER(S): CPS201060 PRODUCT INFORMATION: (800) 582-3835

2. FIRST AID

EYE CONTACT:

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary, however, if irritation persists, see a doctor. SKIN CONTACT:

No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

If respiratory irritation or any signs or symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.

INGESTION:

If swallowed, give water or milk to drink and telephone for medical advice.

DO NOT make person vomit unless directed to do so by medical personnel. If
medical advice cannot be obtained, then take the person and product container
to the nearest medical emergency treatment center or hospital. Note to
Physician: Ingestion of this product or subsequent vomiting can result in
aspiration of light hydrocarbon liquid which can cause pneumonitis.

3. IMMEDIATE HEALTH EFFECTS

EYE CONTACT:

This substance is slightly irritating to the eyes and could cause prolonged (days) impairment of your vision. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include pain, tears,

swelling, redness, and blurred vision. Eye contact with the vapors, fumes, or spray mist from this substance could also cause similar signs and symptoms. SKIN IRRITATION:

Prolonged or frequently repeated contact may cause the skin to become cracked or dry from the defatting action of this material.

DERMAL TOXICITY:

If absorbed through the skin, this substance is considered practically non-toxic to internal organs.

RESPIRATORY/INHALATION:

This substance is slightly toxic to internal organs if inhaled. The degree of

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * * * Issue : 2000-1 (February, 2000) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 542343 PRODUCT NAME (S) : Oxygen DATE OF MSDS : 1992-06-30

*** MANUFACTURER INFORMATION ***

MANUFACTURER : Canadian Oxygen Limited

Canox

ADDRESS : The Corporate Centre

> 89 Queensway West Mississauga Ontario Canada L5B 2V2

Telephone: 416-251-5241 (Canox 24 hr.

telephone no)

EMERGENCY TELEPHONE NO.: 613-996-6666 (Canutec)

2-0101 (Emergency Response No.)

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

PRODUCT INFORMATION

PRODUCT NAME: Oxygen CHEMICAL FAMILY: Oxidizer

SYNONYMS: Oxygen, compressed TDG CLASSIFICATION: 2.2 (5.1) UN 1072

HAZARDOUS INGREDIENTS

FORMULA

100% 7782-44-7 Oxygen

PREPARATION INFORMATION

DATE PREPARED: January, 1989
DATE REVIEWED: June 30, 1992 PREPARED BY: Gas Products Dept.

PHONE NO.: (416) 273-7700

HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE EXPOSURE LIMIT:

None established. 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 included cramps, nausea, dizziness, hypothermia, ambylopia, 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.

FIRST AID

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 breathefresh 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.

PHYSICAL DATA

Boiling Point: -182.9 deg C (-297.3 deg F)

Liquid Density @ Boiling Point: 1141 kg/m3 (71.23 lb/ft3)

Vapor Pressure @ 21.1 deg C (70 deg F): Gaseous above the critical temp. of -

118.4 deg C (-181.1 deg F)

Specific Gravity @ 21.1 deg C, 1 Bar (Air=1): 1.11

Solubility in Water: Slightly soluble

Freezing Point: -218.8 deg C (-361.8 deg F)

Appearance and Odour: Colourless, odourless gas.

FIRE/EXPLOSION HAZARDS DATA

Flash Point (Method Used): Nonflammable Auto Ignition Temperature: Nonflammable Flammability Limits: LEL: Nonflammable

UEL: Nonflammable

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: Stable