LUBRICATING OIL; PETROLEUM OIL

M S D S

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 2313142 PRODUCT NAME(S) : TRANSCAL-N

LUBRICATING OIL; PETROLEUM OIL

PRODUCT IDENTIFICATION : MSDS No. 0135104 US/ENGLISH

CAS NUMBER: 64742-65-0

DATE OF MSDS : 1999-12-09

CURRENCY NOTE : This MSDS was provided to CCOHS in

electronic form on 2000-05-31

*** MANUFACTURER INFORMATION ***

MANUFACTURER : BP Marine America's ADDRESS : Post Office Box 4518

Houston Texas

U.S.A. 77210-4518

Telephone: 630-434-6377 (OTHER PRODUCT

SAFETY INFORMATION, USA)

EMERGENCY TELEPHONE NO.: 800-447-8735 (HEALTH INFORMATION)

613-996-6666 (SPILL INFORMATION, CANUTEC,

Canada)

*** MATERIAL SAFETY DATA ***

MSDS No. 0135104 US/ENGLISH

_____ SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER: EMERGENCY HEALTH INFORMATION:

BP Marine America's

1 (800) 447-8735

PO Box 4518

Houston, TX 77210-4518 U.S.A. EMERGENCY SPILL INFORMATION:

1 (800) 424-9300 CHEMTREC (USA)

OTHER PRODUCT SAFETY INFORMATION:

1 (630) 434-6377 (USA)

SUBSTANCE: TRANSCAL-N

TRADE NAMES/SYNONYMS: LUBRICATING OIL; PETROLEUM OIL

CREATION DATE: Dec 09 1999 REVISION DATE: Dec 21 1999

LUBRICATING OIL; PETROLEUM OIL

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: SOLVENT-DEWAXED HEAVY PARAFFINIC DISTILLATE

CAS NUMBER: 64742-65-0

EC NUMBER (EINECS): 265-169-7

PERCENTAGE: <100

COMPONENT: HYDROTREATED HEAVY PARAFFINIC DISTILLATE

CAS NUMBER: 64742-54-7

EC NUMBER (EINECS): 265-157-1

PERCENTAGE: <100

(See Section 8, "Exposure Controls, Personal Protection", for exposure guidelines)

SECTION 3 HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=1 REACTIVITY=0

EMERGENCY OVERVIEW:

COLOR: yellow

PHYSICAL FORM: liquid ODOR: hydrocarbon odor

MAJOR HEALTH HAZARDS: Prolonged or repeated contact can defat the skin and

lead to irritation and/or dermatitis.

POTENTIAL HEALTH EFFECTS:

INHALATION:

No significant health hazards identified.

SKIN CONTACT:

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Heated material can cause thermal burns.

EYE CONTACT:

No significant health hazards identified.

INGESTION:

Ingestion causes gastrointestinal irritation and diarrhea.

SECTION 4 FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Get medical attention.

SKIN CONTACT: Wash exposed skin with soap and water. Remove contaminated clothing and thoroughly clean and dry before reuse. Get medical attention if irritation develops.

EYE CONTACT: Flush eyes with plenty of water.

LUBRICATING OIL; PETROLEUM OIL

INGESTION: If swallowed, drink plenty of water. Get immediate medical attention. Induce vomiting only at the instructions of a physician. Do not give anything by mouth to unconscious or convulsive person.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard.

EXTINGUISHING MEDIA: carbon dioxide, regular dry chemical, regular foam, water

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Water or foam may cause frothing.

FIRE FIGHTING PROTECTIVE EQUIPMENT: Firefighters should wear full bunker gear, including a positive pressure self contained breathing apparatus.

FLASH POINT: 410 F (210 C)

FLAMMABILITY CLASSIFICATION: Not Flammable.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products or combustion: hydrocarbons, oxides of carbon

SECTION 6 ACCIDENTAL RELEASE MEASURES

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Cover with plastic sheet or tarp to minimize spreading and protect from contact with water. Prevent spreading by diking, ditching, or absorbing on inert materials.

SECTION 7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Do not store in unlabeled containers. Keep away from heat, sparks and flame. Store in a cool, dry place. Store in a well-ventilated area. Keep container tightly closed. Keep separated from incompatible substances.

HANDLING: Keep away from all ignition sources. Use only with adequate ventilation. Do not eat, drink or smoke in areas of use or storage. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Remove contaminated clothing and thoroughly clean and dry before reuse. Wash thoroughly after work using soap and water. SPECIAL PRECAUTIONS: Empty containers may contain toxic,

LUBRICATING OIL; PETROLEUM OIL

flammable/combustible or explosive residue or vapors. Do not cut, grind,

drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

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SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

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EXPOSURE LIMITS:

SOLVENT-DEWAXED HEAVY PARAFFINIC DISTILLATE:

MINERAL OIL MIST:

5 mg/m3 OSHA TWA

5 mg/m3 ACGIH TWA (Notice of Intended Changes 1993-1994)

10 mg/m3 ACGIH STEL (Notice of Intended Changes 1993-1994)

5 mg/m3 MEXICO TWA 10 mg/m3 MEXICO STEL

HYDROTREATED HEAVY PARAFFINIC DISTILLATE:

MINERAL OIL MIST:

5 mg/m3 OSHA TWA

5 mg/m3 ACGIH TWA (Notice of Intended Changes 1993-1994)

10 mg/m3 ACGIH STEL (Notice of Intended Changes 1993-1994)

5 mg/m3 MEXICO TWA

10 mg/m3 MEXICO STEL

VENTILATION: Use with adequate ventilation. Control airborne concentrations below the exposure guidelines.

EYE PROTECTION: None required; however, use of eye protection is good industrial practice.

CLOTHING: Avoid repeated or prolonged contact. Wear protective clothing if prolonged or repeated contact is likely.

GLOVES: Wear protective gloves if prolonged or repeated contact is likely.

RESPIRATOR: Use with adequate ventilation.

Avoid breathing vapor or mist.

If ventilation is inadequate, use a NIOSH certified respirator with an organic vapor cartridge and P95 particulate filter.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid APPEARANCE: clear

COLOR: yellow

ODOR: hydrocarbon odor

BOILING POINT: 649 F (343 C) FREEZING POINT: Not available POUR POINT: 10.0 F (-12.2 C) VAPOR PRESSURE: <0.1 mmHg @ 38 C

VAPOR DENSITY (air=1): >1

LUBRICATING OIL; PETROLEUM OIL

SPECIFIC GRAVITY (water=1): 0.873 WATER SOLUBILITY: almost insoluble

PH: Not available VOLATILITY: negligible

ODOR THRESHOLD: Not available EVAPORATION RATE: very slow, water=1

VISCOSITY: 150-160 SUS @ 38 C

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

INCOMPATIBILITIES: strong oxidizing materials

HAZARDOUS DECOMPOSITION:

Thermal decomposition products or combustion: hydrocarbons, oxides of carbon

POLYMERIZATION: Will not polymerize.

SECTION 11 TOXICOLOGICAL INFORMATION

EYE IRRITATION: Testing not conducted. See Other Toxicity Data.

SKIN IRRITATION: Testing not conducted. See Other Toxicity Data.

DERMAL LD50: Testing not conducted. See Other Toxicity Data.

ORAL LD50: Testing not conducted. See Other Toxicity Data.

INHALATION LC50: Testing not conducted. See Other Toxicity Data.

OTHER TOXICITY DATA:

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on information from similar products, the ingredients, technical literature, and/or professional experience.

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational Safety and Health Act, or the International Agency for Research on Cancer (IARC).

-----LUBRICATING OIL; PETROLEUM OIL ------SECTION 12 ECOLOGICAL INFORMATION Ecological testing has not been conducted on this product by BP Amoco. SECTION 13 DISPOSAL CONSIDERATIONS Dispose in accordance with all applicable regulations. ______ SECTION 14 TRANSPORT INFORMATION ______ U.S. DEPARTMENT OF TRANSPORTATION: Not regulated. CANADIAN TRANSPORTATION OF DANGEROUS GOODS: Not regulated. LAND TRANSPORT ADR/RID: Not regulated. AIR TRANSPORT IATA/ICAO: Not regulated. MARITIME TRANSPORT IMDG: Not regulated. SECTION 15 REGULATORY INFORMATION CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4. SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR Part 355): This product is not regulated under Section 302 of SARA and 40 CFR Part 355. SARA TITLE III SECTION 311/312 HAZARDOUS CATEGORIZATION (40 CFR Part 370): ACUTE: N CHRONIC: N FIRE: N REACTIVE: N SUDDEN RELEASE: N

SARA TITLE III SECTION 313 (40 CFR Part 372): This product is not regulated under Section 313 of SARA and 40 CFR Part 372.

STATE REGULATIONS:

California Proposition 65: N

TSCA INVENTORY STATUS: Listed on inventory.

LUBRICATING OIL; PETROLEUM OIL

OSHA HAZARD COMMUNICATION STANDARD: Contains a component listed by ACGIH.

OSHA HAZARD COMMUNICATION STANDARD: Contains a component listed by ACGIH Contains a component listed by OSHA.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (MITI): Not determined.

AUSTRALIA INVENTORY (AICS): Not determined.

KOREA INVENTORY (ECL): Not determined.

CANADA INVENTORY (DSL): Listed on inventory.

PHILIPPINE INVENTORY (PICCS): Not determined.

CHINA INVENTORY (IECS): Not determined.

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SECTION 16 OTHER INFORMATION

Prepared by: Product Stewardship and Toxicology

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This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1. NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practice

MIBC (METHYL ISOBUTYL CARBINOL)			
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* M S D S *			
*			
* Canadian Centre for Occupational Health and Safety *			
* * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *			
*** IDENTIFICATION ***			
MSDS RECORD NUMBER : 2427908			
PRODUCT NAME(S) : METHYL ISOBUTYL CARBINOL			
DATE OF MSDS : 2000-02-02			
CURRENCY NOTE : This MSDS was provided to CCOHS in			
electronic form on 2000-09-27			
electionic form on 2000-03-27			
*** SUPPLIER/DISTRIBUTOR INFORMATION ***			
SUPPLIER/DISTRIBUTOR : CANADA COLORS AND CHEMICALS LIMITED ADDRESS : 80 Scarsdale Road			
Don Mills Ontario			
Canada M3B 2R7			
Telephone: 416-449-7750			
EMERGENCY TELEPHONE NO. : 416-444-2112			
SUPPLIER/DISTRIBUTOR NOTE :			
For further information about this product please contact the Canada			
Colors Customer Service Department at 416-449-7750.			
*** MATERIAL SAFETY DATA ***			
MATERIAL SAFETY DATA SHEET : 00000545			
CANADA COLORO AND CURRIED A			
CANADA COLORS AND CHEMICALS LI			
80 SCARSDALE ROAD			
DON MILLS, ONTARIO M3B 2R7			
(416) 449-7750			
Product, METUVI TCODIUTVI CARRINOI			
Product: METHYL ISOBUTYL CARBINOL			
SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
SECTION UI: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
MANUFACTURER CANADA COLORS & CHEMICALS LTD.			
80 SCARSDALE ROAD,			
DON MILLS, ON			
DON PILLED, ON			
M3B 2R7			
A Law are MA A A T			
PRODUCT NAME			
PRODUCT CODE			
CHEMICAL FORMULA			
MOLECULAR WEIGHT			
CHEMICAL FAMILYORGANIC.			
MATERIAL USE SOLVENT.			
EMERGENCY PHONE NO			
The state of the s			

MIBC (METHYL ISOBUTYL CARBINOL) SECTION 02: COMPOSITION/INFORMATION ON INGREDIENTS								
							% CAS / TLV	LD/50, ROUTE, SPECIES LC/50, ROUTE, SPECIES
							METHYL ISOBUTYL CARBINOL 100 108-11-2 25 PPM SKIN	>2590 MG/KG >2000 PPM/8H
SECTION 03: HAZARDS IDENTI	IFICATION							
ROUTE OF ENTRY:								
	BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION WITH ITCHING AND LOCAL REDNESS. PROLONGED OR REPEATED CONTACT MAY CAUSE DEFATTING AND DRYING OF THE SKIN PROLONGED OR WIDESPREAD CONTACT MAY RESULT							
	IN THE ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS OF MATERIAL.							
EYE CONTACT	EXCESS REDNESS AND SWELLING OF THE CONJUNCTIVA MAY OCCUR.CAUSES IRRITATION, EXPERIENCED AS STINGING AND DISCOMFORT OR PAIN.CORNEAL INJURY MAY OCCUR.							
INHALATION	HIGH CONCENTRATIONS OF VAPOUR MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT, EXPERIENCED AS NASAL DISCOMFORT AND DISCHARGE, WITH CHEST PAIN AND COUGHING. HIGH VAPOUR CONCENTRATIONS MAY CAUSE DROWSINESS AND HEADACHE.							
	DROWSINESS, NAUSEA, VOMITING MAY OCCUR.							
EFFECTS OF ACUTE EXPOSURE EFFECTS OF CHRONIC EXPOSURE	NO ADVERSE EFFECTS ANTICIPATED FROM							
MEDICAL CONDITIONS AGGRAVATED	AVAILABLE INFORMATION SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS.							
SECTION 04: FIRST AID MEAS								
INSTRUCTIONS:	AMOUNTS OF RUNNING WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS APART TO ENSURE RINSING OF THE ENTIRE SURFACE OF THE EYE AND LIDS WITH WATER.REMOVE ANY CONTACT LENSES.GET IMMEDIATE MEDICAL ATTENTION.IN CASE OF SKIN CONTACT.START RINSING AND							

CASE OF SKIN CONTACT.START RINSING AND REMOVE CONTAMINATED CLOTHING WHILE RINSING. WASH SKIN WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE.IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.IN CASE OF

MIBC (METHY	L ISOBUTYL CARBINOL)
	INGESTION, GIVE LARGE QUANTITIES OF WATER IF CONSCIOUS.INDUCE VOMITING.THIS SHOULD BE DONE ONLY BY MEDICAL OR EXPERIENCED FIRST-AID PERSONEL.GET IMMEDIATE MEDICAL ATTENTION.IF INHALED, REMOVE FROM AREA TO FRESH AIR.APPLY ARTIFICIAL RESPIRATION OR ADMINISTER OXYGEN, IF NECESSARY.OXYGEN MAY BE GIVEN BY QUALIFIED PERSONNEL. SEEK MEDICAL ATTENTION. THERE IS NO SPECIFIC ANTIDOTE. TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.
SECTION 05: FIRE FIGHTING MEA	ASURES
T.D.G. FLAM. CLASS	YES.
	USE WATER SPRAY (FOG), ALCOHOL-TYPE OR ALL-PURPOSE-TYPE FOAM BY MANUFACTURERS' RECOMMENDED TECHNIQUES FOR LARGE FIRES.USE CARBON DIOXIDE OR DRY CHEMICAL FOR SMALL FIRES.
	FLAMMABLE.WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
	39 (C). (T.C.C.). ASTM D 56. 41. (T.O.C.). ASTM D 1310.
AUTO IGNITION TEMPERATURE	
UPPER FLAMMABLE LIMIT (% BY VOL.)	
LOWER FLAMMABLE LIMIT (% BY VOL.)	1.0.
EXPLOSION DATA	
EXPLOSIVE POWER	
RATE OF BURNING	
	THIS MATERIAL MAY PRODUCE A FLOATING FIRE HAZARD IN EXTREME FIRE CONDITIONS.
NALARDOUS COMBUSTION PRODUCTS	DIOXIDE, CARBON MONOXIDE. CARBON MONOXIDE
	IS HIGHLY TOXIC IF INHALED; CARBON DIOXIDE IN SUFFICIENT CONCENTRATIONS CAN ACT AS AN ASPHYXIANT.
	a new season and the ball of the

__________ MIBC (METHYL ISOBUTYL CARBINOL) SECTION 06: ACCIDENTAL RELEASE MEASURES LEAK/SPILL..... SMALL SPILLS CAN BE FLUSHED WITH LARGE OUANTITIES OF WATER. LARGE SPILLS SHOULD BE COLLECTED FOR DISPOSAL, AVOID CONTACT WITH LIQUID AND VAPOURS.WEAR PROTECTIVE EQUIPMENT. THIS PRODUCT MAY BE TOXIC TO FISH. AVOID DISCHARGE TO NATURAL WATERS. SECTION 07: HANDLING AND STORAGE ______ HANDLING PROCEDURES AND..... AVOID CONTACT WITH EYES.AVOID EQUIPMENT INGESTION.AVOID INHALING.WEAR PROTECTIVE EQUIPMENT DURING HANDLING. KEEP AWAY FROM HEAT AND FLAMES. VAPOURS MAY ACCUMULATE AND TRAVEL TO DISTANT IGNITION SOURCES AND FLASHBACK.KEEP CONTAINER CLOSED.EMPTY CONTAINERS ARE HAZARDOUS, MAY CONTAIN FLAMMABLE/EXPLOSIVE DUSTS, LIQUID RESIDUE OR VAPOURS. FOLLOW LABELED WARNINGS EVEN AFTER CONTAINER IS EMPTIED. USE ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. MAINTAIN A GOOD PERSONAL HYGIENE. STORAGE NEEDS..... STORE IN A COOL, DRY, WELL VENTILATED AREA, AWAY FROM HEAT AND IGNITION SOURCES. SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION EXPOSURE GUIDELINES: COMPONENT: METHYL ISOBUTYL CARBINOL: 104 MG/M3 TWA8 ACGIH. 25 PPM TWA8 ACGIH. 167 MG/M3 STEL ACGIH. 40 PPM STEL ACGIH. GLOVES/ TYPE..... IMPERVIOUS GLOVES (NEOPRENE). RESPIRATORY/TYPE..... USE SELF CONTAINED BREATHING APPARATUS IN HIGH VAPOUR CONCENTRATIONS. EYE/TYPE..... MONOGOGGLES. OR. FACE SHIELD. FOOTWEAR/TYPE...... NO SPECIAL REQUIREMENTS. CLOTHING/TYPE..... WEAR IMPERVIOUS PROTECTIVE CLOTHING. CHEMICAL APRON. OTHER/TYPE..... EYE BATH AND SAFETY SHOWER. ENGINEERING CONTROLS..... GENERAL (MECHANICAL) ROOM VENTILATION IS EXPECTED TO BE SATISFACTORY WHERE THIS PRODUCT IS STORED AND HANDLED IN CLOSED EQUIPMENT. SPECIAL, LOCAL VENTILATION IS NEEDED AT POINTS WHERE VAPOURS CAN BE EXPECTED TO ESCAPE TO THE WORKPLACE AIR.PROCESS HAZARD:. SUDDEN RELEASE OF HOT

ORGANIC CHEMICAL VAPORS OR MISTS FROM PROCESS EQUIPMENT OPERATING AT ELEVATED

MIBC (METHYL ISOBUTYL CARBINOL)

TEMPERATURE AND PRESSURE, OR SUDDEN INGRESS OF AIR INTO HOT EQUIPMENT UNDER A VACUUM, MAY RESULT IN IGNITIONS WITHOUT THE PRESENCE OF OBVIOUS IGNITION SOURCES.PUBLISHED "AUTOIGNITION" OR "IGNITION" TEMPERATURE VALUES CANNOT BE TREATED AS SAFE OPERATING TEMPERATURES IN CHEMICAL PROCESSES WITHOUT ANALYSIS OF THE ACTUAL PROCESS CONDITIONS.ANY USE OF THIS PRODUCT IN ELEVATED-TEM PERATURE PROCESS SHOULD BE THOROUGHLY EVALUATED TO ESTABLISH AND MAINTAIN SAFE OPERATING CONDITIONS.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... LIQUID. TRANSPARENT COLOURLESS.

ODOUR..... MILD NONRESIDUAL.

ODOUR THRESHOLD..... N.AV.

VAPOUR PRESSURE (MMHG)......... 0.49 KPA. 3.7 MMHG.

EVAPORATION RATE..... 0.43.

BOILING POINT..... 131.7 (C).

SOLUBILITY IN WATER (% W/W)..... 1.7. AT 20 (C).

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:....

YES..... YES.

NO, WHICH CONDITIONS?.....

COMPATABILITY WITH OTHER.....

SUBSTANCES:

YES.....

NO, WHICH ONES?..... STRONG ACIDS. STRONG ALKALIES.

REACTIVITY CONDITIONS?..... AVOID EXCESSIVE HEAT, OPEN FLAMES AND ALL

IGNITION SOURCES.

HAZARDOUS PRODUCTS OF..... CARBON MONOXIDE AND CARBON DIOXIDE ARE

DECOMPOSITION PRODUCED ON COMBUSTION.

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

MIBC (METHYL ISOBUTYL CARBINOL) SECTION 11: TOXICOLOGICAL INFORMATION ______ EXPOSURE LIMIT OF MATERIAL SEE SECTION 02. LC 50 OF MATERIAL, SPECIES &..... SEE SECTION 02. LD 50 OF MATERIAL, SPECIES &..... COMPONENT: METHYLISOBUTYLCARBINOL. 2590 ROUTE MG/KG. (RAT). 3560 ML/KG. (RABBIT). CARCINOGENICITY OF MATERIAL..... NONE. REPRODUCTIVE EFFECTS..... NONE. IRRITANCY OF MATERIAL..... SEE SECTION 03. SENSITIZING CAPABILITY OF NONE. MATERIAL SYNERGISTIC MATERIALS..... NONE. _____ SECTION 12: ECOLOGICAL CONSIDERATIONS ENVIRONMENTAL TOXICITY..... AT VERY LOW CONCENTRATION IN WATER, THIS PRODUCT IS BIODEGRADABLE IN A BIOLOGICAL INFORMATION WASTEWATER TREATMENT PLANT. THIS PRODUCT MAY BE TOXIC TO FISH. AVOID DISCHARGE TO NATURAL WATERS. SECTION 13: DISPOSAL CONSIDERATIONS WASTE DISPOSAL..... INCINERATE IN A FURNACE IN RESPECT TO PROVINCIAL, FEDERAL AND MUNICIPAL REGULATIONS. SECTION 14: TRANSPORT INFORMATION UN NUMBER..... 2053. PACKING GROUP..... III. SPECIAL SHIPPING INSTRUCTIONS.... NOT REGULATED IF <454 L. SECTION 15: REGULATORY INFORMATION ______ WHMIS CLASSIFICATION..... B3. D2B. CPR COMPLIANCE..... 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.

	MIBC (METH	YL ISOBUTYL	CARBINOL)
SECTION 16: OTHE	R INFORMATIO	N	
N.AV.=NOT AVAILABLE			
N.AP.=NOT APPLICABL	E		
PREPARED BY	,	. Regulatory A	Affairs
DATED		02022000	

MOTOR OIL

MSDS

* Canadian Centre for Occupational Health and Safety *

* * * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 2006368
PRODUCT NAME(S) : MOTOR OI : MOTOR OIL - ALL GRADES PRODUCT IDENTIFICATION : MSDS NUMBER 3700A

DATE OF MSDS : 1998-06-10

CURRENCY NOTE : This MSDS was provided to CCOHS in

electronic form on 1999-02-01

*** MANUFACTURER INFORMATION ***

MANUFACTURER : PRODUITS LUBRI-DELTA INC ADDRESS : 2215 boulevard Industriel

Chomedey Laval Quebec Canada H7S 1P8

Telephone: 450-629-4555 514-383-2784

Fax: 514-383-4241

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

*** MATERIAL SAFETY DATA ***

PRODUITS LUBRI-DELTA INC. 2215, boulevard Industriel Chomedey, Laval QC H7S 1P8

(450) 629-4555 (514) 383-2784 FAX (514) 383-4241

MATERIAL SAFETY DATA SHEET

PREPARATION INFORMATION

PERSON IN CHARGE LAURENT MILLETTE (450) 629-4555 TELEPHONE NUMBER June 10, 1998 REVISED ON 3700A MSDS NUMBER

MOTOR OIL - ALL GRADES MATERIAL IDENTIFICATION

CANUTEC EMERGENCY CANADIAN CENTER

(613) 996-6666

THIS PRODUCT IS NOT REGULATED BY W.H.M.I.S.

DANGEROUS GOODS none

TRANSPORT CLASSIFICATIONS none

MOTOR OIL

PHYSICAL DATA

APPEARANCE & ODOUR

odour

ODOUR LIMIT (ppm)

VAPOUR PRESSURE (mmHg 20 deg C)

EVAPORATION RATE (butyl acetate = 1)

pH DENSITY

VAPOUR DENSITY (air = 1) BOILING POINT deg C

FREEZING POINT deg C SOLUBILITY IN WATER/OIL

FIRE & EXPLOSION DATA

INFLAMMABILITY CONDITIONS

EXTINGUISHING MEDIA

waterspray

FLASH POINT (open vase)
UPPER FLAMMABLE LIMIT %/VOLUME
LOWER FLAMMABLE LIMIT %/VOLUME
AUTO IGNITION TEMPERATURE
DANGEROUS COMBUSTION PRODUCTS

produce carbon oxyde, nitrogen,

SHOCK EXPLOSIBILITY ELECTRO-STATICS

REACTIVITY

INSTABILITY CONDITIONS

MATERIAL TO AVOID

products

CONDITIONS TO AVOID

HAZARDOUS DECOMPOSITION PRODUCTS

phosphorous, sulfur

HEALTH HAZARD INFORMATION

SKIN CONTACT

can cause dermatitis

SKIN ABSORPTION EYE CONTACT

not washed off rapidly

INHALATION

room temperature, low toxicity

ACUTE EXPOSITION EFFECTS

EXPOSITION LIMIT (ppm)

IRRITATING PROPERTY
SENSIBILITY TO PRODUCT

CANCEROGENICITY

TOXIC EFFECTS ON REPRODUCTION

TERATOGENICITY MUTAGENICITY

SYNERGETIC TOXICOLOGIC PRODUCTS

liquid with characteristic

100

<1

0.86 to 0.92

>1

170 to 350 -40 to 0

insoluble in water

none

dry chemical products, foam,

minimum 190 deg C not available not available >220 deg C

thermal decomposition may

phosphorous

none none

stable

all oxidizing and comburant

high temperature

carbon oxyde, nitrogen,

prolonged or repeated contact

very low toxicity

mild to severe irritation if

not considered as a risk at

nothing serious

moderate, 8 hours (5 mg/m3)

no none none

no no none

Page 2 of 3

MOTOR OIL

PREVENTIVE MEASURES

PERSONAL MATERIAL TO USE

SPECIAL TECHNIQUES TO USE

STEPS TO BE TAKEN IF MATERIAL IS RECASED absorb with porus and

chemically inert products

OR SPILLED

ELIMINATION OF RESIDUALS

METHODS AND EQUIPMENTS FOR MANUTENTION

measures to observe

SHIPPING INSTRUCTIONS

rubber gloves

none

none

according to local rules normal uses and security

EMERGENCY AND FIRST-AID PROCEDURES

EYES

SKIN INHALATION

INGESTION EMERGENCY 5060

copious water flush - 15 minutes

soap and water flush

not applicable

DO NOT INDUCE VOMITING, call a physician QUEBEC ANTI-POISON CENTER AT 1-800-463-

The informations contained in this document are given as a guide for the product manutention and were written

in good faith by competent technical personnel. These informations should not be considered as complete

because other aspects of manutention and uses could

be observed. In no case, Produits Lubri-Delta Inc. could be held responsible for damages, losts and injuries

resulting of the use of this product and no warranty whatsoever, tacit or express is awarded by Produits Lubri-Delta Inc. This material safety data sheet is in effect for three (3) years.

NITROGEN

Pl 5 D 5

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 950152
PRODUCT NAME(S) : Nitrogen

PRODUCT IDENTIFICATION : CAS No.: 7727-37-9

Form No. F-85313-4

DATE OF MSDS : 1992-10-01

*** MANUFACTURER INFORMATION ***

MANUFACTURER : ANSUL INCORPORATED
ADDRESS : One Stanton Street

Marinette Wisconsin U.S.A. 54143-2542

Telephone: 715-735-7411 (Other

Information Calls)

EMERGENCY TELEPHONE NO.: 800-424-9300 (CHEMTREC)

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

NITROGEN

QUICK IDENTIFIER (In Plant Common Name)

Prepared By: Safety and Health Department

Date Prepared: October 1, 1992

SECTION 1 - IDENTITY

Common Name: (used on label) Nitrogen

(Trade Name and Synonyms)

CAS No.: 7727-37-9

Chemical Nitrogen Chemical Gas

Name: Family:

Formula: N2

NITROGEN -----SECTION 2 - INGREDIENTS ______ PART A - HAZARDOUS INGREDIENTS Principal Hazardous Component(s) (chemical and common name(s)): 100 Nitrogen 7727-37-9 ACGIH TLV: N/A Acute Toxicity Data: NDA PART B - OTHER INGREDIENTS Other Component(s) (chemical and common name(s)): % CAS No. ______ N/A N/A Acute Toxicity Data: N/A

SECTION 3 - PHYSICAL AND CHEMICAL CHARACTERISTICS

(Fire and Explosion Data)

Boiling Point: - 195.8 deg C Specific Gravity (H2O=1): N/A Vapor Pressure (mm Hg): N/A Percent Volatile by Volume (%): 100

Vapor Density (Air = 1): 0.98

Evaporation Rate (= 1): N/A - Gas at room temperature.

Solubility in Water: Slight

Reactivity in Water: Slight-forms H2CO3

Appearance and Odor: Colorless gas, with no odor.

Flash Point: None

Flammable Limits in Air % by Volume: N/A

Extinguisher Media: N/A

Auto-Ignition Temperature: N/A

Special Fire Though gas cylinders are equipped with pressure and Fighting Procedures: temperature relief devices, they should be removed from high temperatures or fire to avoid risk of

rupture.

Unusual Fire and

Explosion Hazards:

None

NITROGEN

SECTION 4 - PHYSICAL HAZARDS

Stability: Unstable [] Conditions N/A Stable [X] to Avoid:

Incompatibility Can react violently with Li, Nd, Ti under proper

(Materials to Avoid): conditions.

Hazardous None

Decomposition Products:

Hazardous May Occur [] Conditions N/A Polymerization: Will Not Occur [X] to Avoid:

NOTE: As used in Ansul extinguishers or cylinders, N2 is a gas compressed

under pressure up to 2400 psi at 70 deg F.

SECTION 5 - HEALTH HAZARDS

None Listed Threshold

Limit Value:

Routes of Entry:

Eye Contact: Avoid contact with liquefied form of N2. Can produce

chilling sensations and discomfort, also frostbite.

Skin Contact: Evaporation of liquid from the skin can produce chilling

sensations. Frostbite can occur. Avoid N2 liquid. In high concentrations, it is a simple asphyxiant -

Inhalation:

dizziness, shortness of breath, unconsciousness, or

suffocation may occur.

Ingestion is not likely to occur since this material is Ingestion:

gas at room temperature.

Signs and Symptoms:

Acute Overexposure: Dizziness, headaches, tinnitus, difficulty

breathing, drowsiness, depending on length of

exposure and concentrations.

Chronic Overexposure: Compressed air illness.

Medical Conditions Generally None known.

Aggravated by Exposure:

Chemical Listed as Carcinogen or Potential:

National Toxicology Yes [] I.A.R.C. Yes [] OSHA: Yes [] Program: No [X] Monographs: No [X] No [X]

NITROGEN

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES

Immediately flush eyes with plenty of water for at least 15 minutes while holding lids open. If redness, itching

or a burning sensation develops, get Medical attention.

Treat for frostbite if necessary.

Skin Contact: Wash the material off the skin with copious amounts of

> soap and water for at least 15 minutes. If redness, itching, or burning sensation develops, get Medical

attention. Treat for frostbite if necessary.

Remove victim to fresh air. If cough or other respiratory Inhalation:

symptoms occur, consult medical personnel. If not

breathing, give artificial respiration, preferably mouth-

to-mouth. If breathing is difficult, give oxygen.

Consult Medical personnel.

Ingestion is not likely to occur since this material is Ingestion:

gas at room temperature.

SECTION 7 - SPECIAL PROTECTION INFORMATION

______ Respiratory Protection Not normally necessary if controls are adequate. If

(Specify Type): exposure is prolonged, a self-contained breathing

apparatus is recommended.

Ventilation: Local Exhaust: Mechanical (General):

Recommended in Recommended

confined spaces.

Protective For contact with liquid. Eye Chemical goggles

Gloves:

Protection: recommended when handling

liquid. Full faceshield in addition if splashing

is possible.

Other Protective Protective clothing for contact with liquid.

Clothing or Equipment:

SECTION 8 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage:

Store containers in a clean, dry wellventilated area, away from heat above 125 deg F. Store as a compressed gas in DOT approved vessels. If cylinder is not attached to a system, it must be safety capped to protect against violent vessel movement or force of escaping gas if valve is actuated or seal is accidentally

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punctured.

NITROGEN

Note incompatibility information in Section

Precautions:

Steps to be Taken in Case

Material is Released or Spilled:

Ventilate to outside.

Dispose of in compliance with local, state, Waste Disposal

Methods: and federal regulations.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS

HAZARD INDEX:

- 4 Severe Hazard 0 HEALTH
 3 Serious Hazard 0 FLAMMABILITY
 2 Moderate Hazard 0 REACTIVITY
- 1 Slight Hazard
- 0 Minimal Hazard

N/A = Not Applicable NDA = No Data Available

ANSUL is a registered trademark.

Form No. F-85313-4

OXYGEN

MSDS

* Canadian Centre for Occupational Health and Safety * * * * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *

*** IDENTIFICATION ***

MSDS RECORD NUMBER : 76352 PRODUCT NAME(S) : Oxygen

CURRENCY NOTE : MSDS Confirmed Current: 1999-02-24

*** MANUFACTURER INFORMATION ***

MANUFACTURER

: Airco Specialty Gases : 575 Mountain Avenue ADDRESS Murray Hill New Jersey

U.S.A. 07974

Telephone: 201-464-8100

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : Applied Research Products

ADDRESS

: Post Office Box 277 Cartierville

Montreal Quebec Canada H4K 2J6

*** MATERIAL SAFETY DATA ***

MATERIAL SAFETY DATA SHEET

Product Name: Oxygen

(Chemical name is underlined)

Synonyms: None

DOT Hazard Class: Nonflammable gas CAS Number: 7782-44-7

DOT Identification Number: UN 1072 Chemical Formula: 02

Chemical Family: Oxidizer

OXYGEN

Health Hazard Data

TWA: None established (ACGIH, 1984-85). 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 and uncontaminated area and given assisted respiration. When breathing has been restored, treatment should be as above. Continued treatment should be symptomatic and supportive.

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 deg F (-182.9 deg C)

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

Vapor Pressure @ 70 deg F (21.1 deg C): Above the critical temperatures of -181.1 deg F (118.4 deg C)

Specific Gravity @ 70 deg F, 1 atm (Air=1): 1.11

Solubility in Water: Slightly

Freezing Point: -361.8 deg F (-218.8 deg C)
Appearance and Odor: Colorless, odorless gas

OXYGEN

Fire and Explosion Hazard Data

mi al maria (wall of ward)

Flash Point (Method Used): N/A

Auto Ignition Temperature: N/A

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

Stable

Conditions to Avoid:

Incompatibility (Materials to Avoid): All flammable materials

Hazardous Decomposition Products: None

Hazardous Polymerization:

Will not occur

Conditions to Avoid:

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 CHEMTREC for emergency assistance or your closest Airco location.

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 Airco for proper disposal.

OXYGEN

Special Protection Information

Respiratory Protection: N/A

Ventilation: To prevent accumulation above 25 molar percent.

Local Exhaust: To prevent accumulation above 25 molar percent.

Special:

Mechanical (Gen.):

Other:

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 DOT Hazard Class: Nonflammable gas

Oxygen, compressed

DOT Shipping Label: Oxidizer I.D. No.: UN1072

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.

OXYGEN

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(R), Inconel(R) or beryllium. Lead and silver or lead and tin alloys are good gasketing materials. Teflon(R) and Kel-F(R) 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).

ISN: 76352

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MSDS
     * Canadian Centre for Occupational Health and Safety *
     * * * * * * * * * * * * * * Issue : 2001-1 (February, 2001) *
                     *** IDENTIFICATION ***
MSDS RECORD NUMBER : 2495764
PRODUCT NAME(S) : Pax 18
PRODUCT IDENTIFICATION : Code LA3238
DATE OF MSDS
                 : 1999-07-09
CURRENCY NOTE
                 : This MSDS was provided to CCOHS in
                   electronic form on 2000-12-20
              *** SUPPLIER/DISTRIBUTOR INFORMATION ***
SUPPLIER/DISTRIBUTOR : VAN WATERS & ROGERS LTD
ADDRESS : 9800 Van Horne Way
                   Richmond British Columbia
                   Canada V6X 1W5
EMERGENCY TELEPHONE NO. : 800-424-9300 (CHEMTREC)
                   *** MATERIAL SAFETY DATA ***
_________
 VAN WATERS & ROGERS LTD. 9800 VAN HORNE WAY RICHMOND, B C. V6X 1W5
 WHMIS CODES:
                For Emergency Assistance
                Involving Chemicals Call CHEMTREC
                (800) 424-9300
                    WHMIS (Classification)
                CLASS E: Corrosive liquid.
**Section I. Chemical Product Identification**
Product Name Pax 18
                                      Code LA3238
                                      CAS# Mixture.
         Pax-11, Pax-14, Pax-19, Pax-10.
 Synonym
                                      DSL On the DSL list.
 Chemical Not applicable.
 Name
                                      CI# Not available.
 Chemical Not available.
 Family
 Chemical Not applicable.
 Formula
 Material Not available.
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Uses

PAX -----

Section II. Composition and Information on Ingredients

| Name | CAS # | % by
Weight | LC50/LD50 |
|------------------------|-----------|----------------|---|
| Aluminum chlorohydrate | 1327-41-9 | <50 | ORAL (LD50): Acute: 12780 mg/kg [Rat]. |
| Water | 7732-18-5 | <50 | ORAL (LD50): Acute: 99999 mg/kg [Rat.]. Chronic: 99999 mg/kg [Rat.]. DERMAL (LD50): Acute: 99999 mg/kg [Rat.]. Chronic: 99999 mg/kg [Rat.]. GAS (LC50): Acute: 99999 ppm 4 hour(s) [Rat.]. Chronic: 99999 ppm 4 hour(s) [Rat.]. VAPOR (LC50): Acute: 99999 ppm 4 hour(s) [Rat.]. Chronic: 99999 ppm 4 hour(s) [Rat.]. DUST (LC50): Acute: 73659.8 mg/m3 |

Section III. Hazards Identification

Mamo

Potential Acute Extremely hazardous in case of ingestion. Very hazardous Health Effects in case of skin contact (irritant), of eye contact (irritant, corrosive). Hazardous in case of inhalation. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

[Rat.].

4 hour(s) [Rat.]. Chronic: 73659.8 mg/m3 4 hour(s)

Effects

Potential CARCINOGENIC EFFECTS: Not available. Chronic Health MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

PAX

_______ **Section IV. First Aid Measures**

Eye Contact

Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

Skin Contact

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Contact

Hazardous Skin Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Hazardous Inhalation

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion

DO NOT induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Hazardous Ingestion Not available.

Section V. Fire and Explosion Data

The Product is: May be combustible at high temperature.

Auto-Ignition Not available. Temperature

Flash Points Not available.

Flammable LimitsNot available.

Products of Not available. Combustion