

Product Name:

Chemical Name:

Synonyms:

Trade Names:

Product Use:

2.1 Hazard Identification:

Distributor's Name:

Emergency Phone:

Distributor's Address:

Business Phone / Fax:

1.1

12

1.3

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1.9

SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013

+1 (510) 608-5525 / +1 (510) 742-9262

1. PRODUCT & COMPANY IDENTIFICATION

BMW ANTIFREEZE/COOLANT (AFC)

Ethylene Glycol Mixture

Ethanediol

BMW Antifreeze/Coolant (AFC)

Engine Coolant

Worldpac, Inc.

37137 Hickory Street, Newark, CA 94560 USA

2. HAZARDS IDENTIFICATION

INFOTRAC: +1 (800) 535-5053 / +1 (352) 323-3500 (CONTRACT 84261)

This product is classified as a hazardous substance but not as dangerous goods according to

the classification criteria of [NOHSC: 1088 (2004)] and ADG Code (Australia).
WARNING! HARMFUL IF SWALLOWED. SUSPECTED OF DAMAGING FERTILITY OR
THE UNBORN CHILD.
<u>Hazard Statements</u> (H): H302 – Harmful if swallowed. H361d – Suspected of damaging fertility or the unborn child.
Precautionary Statements (P): P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P264 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P270 – Do not eat, drink or smoke when using this product. P280 – Wear protective gloves/eye protection. P281 – Use personal protective equipment as required. P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 – Rinse mouth. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 – IF exposed or



concerned: Get medical advice/attention. P405 – Store locked up. P501 - Dispose of contents/container to licenses treatment, storage and disposal facility (TSDF). Eyes: This product can cause transient mild eye irritation with short-term contact with licenses. Skin: May cause mild skin irritation. Although rare, skin contact with ethylene glycol reallergic skin reaction (e.g., delayed skin rash which may be followed by blistering other skin effects). Passage through the skin may add to toxic effects from swallowing. Ingestion: If small amounts swallowed, no significant adverse health effects are anticipated ingestion of large amounts may cause serious damage to the target organs or death.	contact lenses, if present and easy to do. Continue rinsing. P308+P313 – IF exposed or		
2.2 Effects of Exposure: Eyes: This product can cause transient mild eye irritation with short-term contact with lice mists. Skin: May cause mild skin irritation. Although rare, skin contact with ethylene glycol reallergic skin reaction (e.g., delayed skin rash which may be followed by blistering other skin effects). Passage through the skin may add to toxic effects from swallowing. Ingestion: If small amounts swallowed, no significant adverse health effects are anticipated.			
mists. Skin: May cause mild skin irritation. Although rare, skin contact with ethylene glycol rallergic skin reaction (e.g., delayed skin rash which may be followed by blistering other skin effects). Passage through the skin may add to toxic effects from swallowing. Ingestion: If small amounts swallowed, no significant adverse health effects are anticipated.	iguid sprays or		
allergic skin reaction (e.g., delayed skin rash which may be followed by blistering other skin effects). Passage through the skin may add to toxic effects from swallowing. Ingestion: If small amounts swallowed, no significant adverse health effects are anticipated.	quid Sprays of		
	ng, scaling and		
Inhalation: Breathing of vapor or mist is possible and may cause respiratory tract irritation. Possible and may cause respiratory tract irritation. Possible and blood-forming system. Aspiration of liquid into cause severe lung damage or death.			
2.3 Symptoms of Overexposure: <u>Eyes</u> : Stinging or burning sensation, Irritation, redness, and watering.			
Skin: Possible irritation, defatting, or dermatitis (rash), characterized by dry, scaling, red, itc	tching skin.		
Ingestion: Laxative effects. Gastrointestinal discomfort, nausea, vomiting and headache.			
Inhalation: Upper respiratory irritation, coughing, sneezing, staggering gait, giddiness, drows speech, involuntary eye movement, kidney damage, weakness, fatigue, nausea, nervous system depression. Overexposure to sprays or mists may cause chemical programment.	a, and possible		
2.4 Acute Health Effects: Moderate irritation to eyes. Possible irritation to skin near affected areas or dermatitis (rash). Up irritation, possible nervous system depression. Harmful or fatal is swallowed.	Moderate irritation to eyes. Possible irritation to skin near affected areas or dermatitis (rash). Upper respiratory irritation, possible nervous system depression. Harmful or fatal is swallowed.		
(dermatitis). Repeated or prolonged exposure to this material (or its components) has been suggested	Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis). Repeated or prolonged exposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of the organs in humans: kidneys, liver. May cause central nervous system effects, liver abnormalities, kidney damage or liver damage.		
2.6 Target Organs: Kidneys, liver, central nervous system.	damage.		

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC ppm ppm ppm ES-ES-TLV IDLH STEL CHEMICAL NAME(S) CAS No. RTECS No. EINECS No. STEL TWA STEL PEAK PEL OTHER 107-21-1 KW2975000 203-473-3 60-100 (100) NA NF NF NF (50)NA NA ETHYLENE GLYCOL Acute Tox. 4 *; H302 111-46-6 203-872-2 7-13 NA NF NF NF NA NA NA NA NA DIETHYLENE GLYCOL Acute Tox. 4; H302 149-57-5 NA 205-743-6 (5) NA NF NF NF NA 5-10 NA ETHYLHEXANOIC ACID Acute Tox. (Dermal) 4; Acute Tox. (Oral) 5; Serious Eye. Dam. 1; Repr. 2; H303, H312, H318, H361d 1310-73-2 WB4900000 215-185-5 5-10 (2) NA NF NF NF (2) (10)SODIUM HYDROXIDE Skin Corr. 1A: H314 4. FIRST AID MEASURES 4.1 First Aid: Do NOT induce vomiting. Contact Infotrac +1 (800) 535-5053 or the nearest Poison Control Center Ingestion: or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 Eyes: minutes, holding eyelid(s) open to ensure complete flushing. If the eyes or face become swollen during or following use, consult a physician or emergency room immediately. Remove contaminated clothing and wash affected areas with soap and water. If discomfort persists Skin: and/or the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned. Inhalation: Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention. Medical Conditions Aggravated by 4.2 Persons with pre-existing central nervous system (CNS) HEALTH Exposure: disease, neurological conditions, skin disorders, chronic **FLAMMABILITY** 0 respiratory diseases, or impaired liver or kidney function should PHYSICAL HAZARDS 0 avoid exposure. PROTECTIVE EQUIPMENT В **EYES** SKIN 5. FIREFIGHTING MEASURES 5.1 Fire & Explosion Hazards: If involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO₂, and NOx), smoke, hydrocarbons and their derivatives. Extinguishing Methods: 5.2 Water, Foam, CO₂, Dry Chemical, low velocity water fog, Halon (if permitted), 5.3 Firefighting Procedures: As with any fire, firefighters should wear appropriate protective equipment including a MSHA/NIOSH approved or equivalent self-contained breathing apparatus (SCBA) and protective clothing. Treat as hot oil. Hazardous decomposition products may be released. Thermal degradation may produce oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire should be fought from a safe distance. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURES Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Spills Equipment (PPE). Use safety glasses or safety goggles and face shield; use gloves and other protective clothing (e.g., apron, boots, etc.) to prevent skin contact. Small Spills: Wear appropriate protective equipment including gloves and protective eyewear. Use a noncombustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal. Large Spills: Keep incompatible materials (e.g., oxidizers, strong acids, alkalis) away from spill. Stay upwind and away from spill or release. Isolate immediate hazard area and keep unauthorized personnel out of area. Stop spill or release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 7. HANDLING & STORAGE INFORMATION Work & Hygiene Practices: Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Do not expose to heat and flame. Use only in ventilated areas. Immediately clean-up and decontaminate any spills or residues. Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct 7.2 sunlight. Store in closed containers. Avoid temperatures above 40°C (120°F). Keep away from incompatible substances (see Section 10) and food/drink. Protect containers from physical damage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Special Precautions: 7.3 Empty containers may retain hazardous product residues. **EXPOSURE CONTROLS & PERSONAL PROTECTION** 8.1 Ventilation & Engineering Controls: Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). 8.2 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia. 8.3 Eye Protection: Avoid eye contact. Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). 8.4 Hand Protection: Wear protective, chemical-resistant gloves (e.g., neoprene, nitrile) when using or handling this product. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. 8.5 Body Protection: Not required under normal conditions of use. A chemical resistant apron and/or protective clothing are recommended when handling or using large quantities (e.g., > 5 gallons (18.9 L)) of this product. Protective working garments should meet EU Standard EN 344 or equivalent. 9. PHYSICAL & CHEMICAL PROPERTIES Appearance: Clear liquid (possibly dyed) 9.2 Odor Mild glycol odor 9.3 Odor Threshold: NA 9.4 :Ha NA 9.5 Melting Point/Freezing Point: NA Initial Boiling Point/Boiling Range: 9.6 165.5 °C (330 °F) 9.7 Flashpoint 121 °C (250 °F) Upper/Lower Flammability Limits: 9.8 NA 9.9 Vapor Pressure: 1.10 mm Hg @ 20 °C (68 °F) 9.10 Vapor Density 9.11 Relative Density: 1.127 @ 25 °C (77 °F) 9.12 Solubility Soluble 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature: NA Decomposition Temperature: 9.15 NA 9.16 Viscosity: NA Other Information: 9.17 NA 10. STABILITY & REACTIVITY 10.1 Stability: This product is stable under normal storage and use conditions. Hazardous Decomposition Products: 10.2 Oxides of carbon (CO, CO₂), sulfur (SO_x), and nitrogen (NO_x). 10.3 Hazardous Polymerization: 104 Conditions to Avoid: Open flames, high heat and direct sunlight. 10.5 Incompatible Substances: Strong oxidizing agents, acids or alkalis.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 2.0 SDS Revision Date: 12/31/2013 11. TOXICOLOGICAL INFORMATION Inhalation: NO 11.1 Routes of Entry: Absorption: YES Ingestion: YES 11 2 Toxicity Data: This product has not been tested on animals to obtain toxicological data. Toxicology data for some of the components in this mixture, found in scientific literature, are presented below: Sodium Hydroxide: LD₅₀ (oral, rat): 500 mg/kg; Ethylene Glycol: LD₅₀ (oral, rat): 4700 mg/kg; Diethylene Glycol: LD₅₀ (oral, rat): 12565 ppm; Ethylhexanoic Acid: LD₅₀ (oral, rat): 1142 mg/kg 11.3 Acute Toxicity: See section 2.4 11.4 Chronic Toxicity: See section 2.5 11.5 Suspected Carcinogen: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. 11.6 Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenicity effects in humans. Embryotoxicity: This product is not reported to produce embryotoxic effects in humans Teratogenicity: This product is not reported to cause teratogenic effects in humans. Reproductive Toxicity: This product is not reported to cause reproductive effects in humans. Irritancy of Product: 11.7 See Section 2.3 Biological Exposure Indices: NA 11.9 Physician Recommendations: This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon possible in cases of sever poisoning since the elimination of the half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such may be used as an antidote in the treatment off ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body. Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting and in severe cases, coma, convulsions, and possible death. The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnia, tachycardia, mild hypertension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 hours post exposure and is characterized by renal failure by a mild increase in blood urine nitrogen and creatinine followed by recovery to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is sever metabolic acidosis 12. ECOLOGICAL INFORMATION 12.1 **Environmental Stability** Do not allow product to reach ground water, water bodies or sewage system. There is no specific data available for this product. 12.2 Effects on Plants & Animals: 12.3 Effects on Aquatic Life There is no specific data available for this product. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Dispose of in accordance with federal, state, provincial and local regulations. 132 Special Considerations: Used coolant may be recyclable. Contact the federal, state or provincial environmental authority to determine suitability for recycling and or proper disposal requirements. 14. TRANSPORTATION INFORMATION The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG, SCT, ADGT, ADR and the CTDGR 49 CFR (GND): 14.1 NOT REGULATED IATA (AIR): 14.2 **NOT REGULATED** IMDG (OCN): 14 3 **NOT REGULATED** 14 4 TDGR (Canadian GND): NOT REGULATED 14.5 ADR/RID (EU): **NOT REGULATED** 14.6 SCT (MEXICO): **NOT REGULATED** 14.7 ADGR (AUS): **NOT REGULATED**



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SDS Revision: 2.0

SDS Revision Date: 12/31/2013

	15. REGULATORY INFORMATION				
15.1	SARA Reporting Requirements:	This product contains Ethylene Glycol, a s	ubstance subject to SARA Title III, section 313 reporting requirements.		
15.2	SARA Threshold Planning Quantity:	NA			
15.3	TSCA Inventory Status:	All components of this product are listed in the TSCA Inventory or are exempt.			
15.4	CERCLA Reportable Quantity (RQ):	Ethylene Glycol: 5000 lbs (2270 kg)			
15.5	Other Federal Requirements:	NA	_		
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS D2B (Other Toxic Effects).			
15.7	State Regulatory Information:	Hazardous Substances List (MA), Minne (NJ), Pennsylvania Right-to-Know List (PA <u>Diethylene Glycol</u> is found on the following <u>Sodium Hydroxide</u> is found on the following No ingredients in this product, present in a criteria lists: California Proposition 65 (Substances List (MA), Michigan Critical Suersey Right-to-Know List (NJ), New York	state criteria lists: Florida Toxic Substances List (FL), Massachusetts sota Hazardous Substances List (MN), New Jersey Right-to-Know List), and Washington Permissible Exposures List (WA). state criteria lists: MN, PA. g state criteria lists: FL, MA, MN, NJ, PA, and WA. a concentration of 1.0% or greater, are listed on any of the following state (CA), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MI), New Hazardous Substances List (MN), New Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), VA), Wisconsin Hazardous Substances List (WI).		
15.8	Other Requirements:	The primary component of this product is li Ethylene Glycol: Harmful (Xn). Risk Phrases (R): R22-63 – Harmful if swa	isted in Annex I of EU Directive 67/548/EEC: allowed. Possible risk of harm to the unborn child. of the reach of children. If swallowed, seek medical er or label where possible.		
16.1	Other Information:	WARNING! HARMFUL IF SWALLOWED. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/eye protection. If ingested, call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. KEEP OUT OF REACH OF CHILDREN.			
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.			
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Worldpac's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.			
16.4	Prepared for:	Worldpac, Inc. 37137 Hickory Street Newark, CA 94560 USA Tel: +1 (510) 608-5525 Fax: +1 (510) 742-9262 http://www.worldpac.com	WORLDPAC :::jilliliji)		
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, OR 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700	ShipMate* Dangerous Goods		



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SDS Revision: 2.0

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	American Conference on Governmental Industrial Hygienists	
TLV Threshold Limit Value		
OSHA	SHA U.S. Occupational Safety and Health Administration	
PEL	Permissible Exposure Limit	
IDLH Immediately Dangerous to Life and Health		

FIRST AID MEASURES:

1	CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
		stopped receives manual chest compressions and breathing to circulate blood
ı		and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

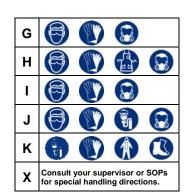
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard



PERSONAL PROTECTION RATINGS:

Α			
В			
С		型	
D	6	型	
Е			
F			





Splash Goggles



Full Face Respirator

Synthetic Apron



Dust & Vapor Half-Mask Respirator









Dust Respirator

Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

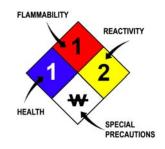
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:		
Autoignition Temperature		
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
ОХ	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

	.
LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
	s
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD _{Io}	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD _{Io} , LD _{Io} , & LD _o or	Lowest dose (or concentration) to cause lethal or toxic effects
TC, TC _o , LC _{io} , & LC _o	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL _m	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System					
DOT	U.S. Department of Transportation					
TC	Fransport Canada					
EPA	U.S. Environmental Protection Agency					
DSL	Canadian Domestic Substance List					
NDSL	Canadian Non-Domestic Substance List					
PSL	Canadian Priority Substances List					
TSCA	U.S. Toxic Substance Control Act					
EU	European Union (European Union Directive 67/548/EEC)					
WGK	Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0			(2)	\bigcirc	®		ĸ	
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F	
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive	

EC (67/548/EEC) INFORMATION:

154		M	¥			×	×
С	E	F	N	0	Т	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

			\Diamond			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment