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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 10/25/2018 1. PRODUCT & COMPANY IDENTIFICATION 1 1 Product Name RIG[®]+P[™] STAINLESS STEEL LUBE 1.2 Chemical Name Mixture 1.3 Synonyms 40051 RIG®+P™ Stainless Steel Lube 1.4 Trade Names: Product Use: 1.5 Lubricant Grease Distributor's Name: 1.6 Birchwood Casey, LLC Distributor's Address: 3260 Winpark Drive, New Hope, MN., 55427 USA 1.7 1.8 Emergency Phone: ChemTrec +1 (800) 424-9300 / +1 (703) 527-3887 or Poison Control Center +1 (866) 291-7152 +1 (952) 388-6717 1.9 Business Phone / Fax: 2. HAZARDS IDENTIFICATION 2.1 Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). DANGER! MAY CAUSE CANCER. CAUSES SERIOUS EYE IRRITATION. Classification: Carc. 1A; Causes serious eye irritation. 2.2 Label Elements: Hazard Statements (H): H350 – May cause cancer. H319 – Causes serious eye irritation. Precautionary Statements (P): P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P264 – Wash thoroughly after P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - IF IIN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persist: Get medical advice/attention. P308+P313 - IF exposed or concerned: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container through licensed treatment, storage or disposal facility. 2.3 Other Warnings: In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this SDS. KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) **ACGIH** NOHSC OSHA ppm ppm ppm FS. FS-FS-CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No.** TLV STEL PEAK PEL STEL IDLH OTHER TWA STEL SE6780000 232-373-2 50-75 NF 8009-03-8 NA NA NF NF NA NA NA **PETROLATUM** Carc. 1B: H350 LINEAR ALKYLBENZENE 68411-30-3 NA 270-115-0 5-20 NA NA NF NF NF NA NA NA **SULPHONATE** Acute Tox. 4; Skin Irrit. 1; Eye Dam. 1; Aquatic Chronic 3; H302, H315, H318, H412 DISTILLATES (PETROLEUM), 64742-53-6 NA 265-156-6 1.0-10 (5) (10) (5) NA NA (5) NA NA OIL MIST HYDROTREATED LIGHT Carc. 1B; H350 NAPHTHENIC * 64742-46-7 NA 264-148-2 1.0-10 NA 5 NF NF NF NA 5 10 OIL MIST DISTILLATES, PETROLEUM, HYDROTREATED MIDDLE Carc. 1B; H350 NF 68603-13-4 271-640-8 NA NA NF NF NA NA NA PETROLATUM (PETROLEUM), NA 1.0-10 OXIDIZED ESTER WITH SORBITOI * contains less than 3% Dimethyl Sulfoxide 4. FIRST AID MEASURES DO NOT INDUCE VOMITING. Contact Poison Control Center +1 (866) 291-7152 or the nearest Poison 4 1 First Aid: Ingestion: Control Center 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 Eyes: If product gets in the eyes, flush eyes thoroughly with copious amounts of water for at least 15 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 and/or Skin: the skin reaction worsens, contact a physician immediately. Do not wear contaminated clothing until after it has been properly cleaned.

respiration. Seek immediate medical attention.

Remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial

Inhalation:



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		4. FIRST AID MEASURES - cont'd				
4.2	Effects of Exposure:	Ingestion: If product is swallowed, may cause nausea, temporary gast Eyes: Moderately irritating to the eyes. Symptoms of overexpos				
		watering. Skin: May be irritating to skin. The product can cause allergic s	skin reaction	s (e.g., rashe	s, welts, derm	atitis) in
		some sensitive individuals. Inhalation: None expected.				ŕ
4.3	Symptoms of Overexposure:	Eyes: Redness, burning, irritation, and swelling around eyes.				
		Skin: Redness, burning, itching, rash, and scaling of the skin (der	rmatitis).			
		Ingestion: Nausea, vomiting, severe abdominal pain. Inhalation: Coughing, wheezing, swelling of throat, irritation in mucous	membranes	difficulty bre	athing	
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additional drowsiness, dizziness, headaches and nausea.				n cause
4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.				
4.6	Target Organs:	Eyes, Skin, Respiratory System				
4.7	Medical Conditions	Persons with pre-existing skin disorders, eye problems, or impaired	HEALTH			3
	Aggravated by Exposure:	kidney function may be more susceptible to the effects of the substance.	FLAMMA			1
				AL HAZARD	S	0
				TIVE EQUIF		В
			EYES	SKIN		
	<u> </u>		1	1 01	<u> </u>	
		5. FIREFIGHTING MEASURES				
5.1	Fire & Explosion Hazards:	This product is not flammable. However, if involved in a fire, this product temperatures to form toxic gases (e.g., CO, CO _x).	duct may de	compose at h	nigh	
5.2 5.3	Extinguishing Methods:	Carbon dioxide, foam, low velocity water fog, Halon (if permitted), dry che As with any fire, firefighters should wear appropriate protective equipme	emical exting	uisher.		
		approved or equivalent self-contained breathing apparatus (SCBA) and				
		hot oil. Hazardous decomposition products may be released. Thermal oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire statistance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway.	should be for	ought from a so cool fire-expos	afe sed	0
		oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire sidistance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from	should be for er spray to on the contro	ought from a so cool fire-expos	afe sed	
6.1	Spills:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire significance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanure Equipment. CAUTION – may be slippery if spilled.	should be for spray to on fire control ES	ar appropriate	afe sed om Pressonal Pr	
6.1	Spills:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire significance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanure.	ES protective ces of ignitions de of containuse. d individuals y and clean proper dispo	ar appropriate equipment (e on. Remove of proper iner with plent or Dike and cup. Transfer I sal. Remove	e Personal Programmer. g., goggles, spilled materry in accordarty of warm was contain spill williquid to contain contaminated	gloves). rial with nce with ater and rith inert iners for clothing
6.1	Spills:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire significance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanure Equipment. CAUTION – may be slippery if spilled. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal Maximize ventilation (open doors and windows) and secure all source absorbent material and place into appropriate closed container(s) for dis local, state and federal regulations. Wash all affected areas and outsies soap. Remove any contaminated clothing and wash thoroughly before refor large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected material (e.g., sand or earth). Use ONLY non-sparking tools for recovery recovery or disposal and solid diking material to separate containers for promptly and wash affected skin areas with soap and water. Keep spill	eshould be for spray to on fire control ES IP must were protective ces of ignition sposal. Dispute of containuse. It is individuals y and clean proper disposal and clean cl	ar appropriate equipment (e on. Remove of proper iner with plent or Dike and cup. Transfer I sal. Remove	e Personal Programmer. g., goggles, spilled materry in accordarty of warm was contain spill williquid to contain contaminated	gloves). rial with nce with ater and rith inert iners for clothing
7.1	Spills: Work & Hygiene Practices:	oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire significance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanure Equipment. CAUTION – may be slippery if spilled. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal Maximize ventilation (open doors and windows) and secure all source absorbent material and place into appropriate closed container(s) for dis local, state and federal regulations. Wash all affected areas and outsic soap. Remove any contaminated clothing and wash thoroughly before refor large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected material (e.g., sand or earth). Use ONLY non-sparking tools for recovery recovery or disposal and solid diking material to separate containers for promptly and wash affected skin areas with soap and water. Keep spill and open bodies of water.	ES IP Must weather the protective case of ignitions deposal. Dispute de of containuse. In the protection of the protect	ar appropriate equipment (e on. Remove ose of proper iner with plent is al. Remove ing runoffs ou se in a well-ve	afe sed om Properties of Personal Properties of Personal Properties of Personal Properties of Personal Properties of Properties	gloves). rial with nce with ater and rith iners ners for clothing sewers
		oxides of carbon, and/or nitrogen, hydrocarbons and/or derivatives. Fire significance. Keep containers cool until well after the fire is out. Use water surfaces and to protect personal. Fight fire upwind. Prevent runoff from entering sewers, drains, drinking water supply, or any natural waterway. 6. ACCIDENTAL RELEASE MEASURE Before cleaning any spill or leak, individuals involved in spill cleanure Equipment. CAUTION – may be slippery if spilled. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal Maximize ventilation (open doors and windows) and secure all source absorbent material and place into appropriate closed container(s) for discounting in the same properties of the same properties. Wash all affected areas and outsic soap. Remove any contaminated clothing and wash thoroughly before refor large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected material (e.g., sand or earth). Use ONLY non-sparking tools for recovery recovery or disposal and solid diking material to separate containers for promptly and wash affected skin areas with soap and water. Keep spill and open bodies of water. 7. HANDLING & STORAGE INFORMAT Avoid prolonged contact with the product. Avoid breathing vapors of this local exhaust ventilation, fans). After use, wash hands and exposed significance in the surface of the surface in the surfa	product. Usikin with soa	ar appropriate equipment (e on. Remove oose of propel ner with plent is. Dike and o up. Transfer I sal. Remove ing runoffs ou see in a well-ve up and water. on a stable suit of this prod way from dire	afe sed om Programmer	gloves). rial with nce with ater and rith inert rith inert riclothing sewers on (e.g., drink or ontainer , empty her light



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8.1	Exposure Limits:		AC	GIH		NOHSC			OSHA		OTHER
	ppm (mg/m³)	OUEMON NAME(O)			F0	ES-	ES-	p=:		10	
		CHEMICAL NAME(S) DISTILLATES. PETROLEUM.	TLV	STEL	ES-TWA	STEL	PEAK	PEL	STEL	IDLH	1
		HYDROTREATED MIDDLE	NA	5	NF	NF	NF	NA	5	10	OIL MIST
		DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	(5)	(10)	(5)	NA	NA	(5)	NA	NA	OIL MIST
8.2	Ventilation & Engineering	NAPHTHENIC	tilation to	off optive	li romovo	and are	vont huild	un of vor	2010 01 10	iot conor	oted from t
J.Z	Controls:	Use local or general exhaust ven handling of this product. Ensure a station).									
8.3	Respiratory Protection:	No special respiratory protection necessary, use only respiratory §1910.134, or applicable U.S. sta E.C. member states, or Australia.	protect	ion autho	orized per	U.S. O	SHA's re	quiremer	nt in 29	CFR	
8.4	Eye Protection:	Wear protective eyewear (e.g., sa Always use protective eyewear wh	nen clear	ning spills						oduct. d; soft	
8.5	Hand Protection:	lenses may absorb and concentra			at will accou	ur duurina	uoo of this	n radiiat	woorlo	tov or	
0.5	Figure Florection.	If anticipated that prolonged & reprubber gloves for routine industrappropriate standards of Canada,	ial use.	If necess	sary, refer						
8.6	Body Protection:	No apron required when handling wash stations and deluge showe clothing are recommended when product. Upon completion of work areas thoroughly with soap and w	rs shoul handling activitie	d be ava g or using	ilable. A c g large qua	hemical antities (e	resistant a e.g., > 5 g	apron an gallons (1	d/or prote (8.9 L)) c	ective of this	
		9. PHYSICAL 8	& CHE	MICA	L PRO	PERT	TES				
9.1	Appearance:	Yellow oily liquid									
9.2	Odor:	Solvent odor									
9.3	Odor Threshold:	NA									
9.4	pH:	NA									
9.5	Melting Point/Freezing Point:	NA									
9.6	Initial Boiling Point/Boiling Range:	260 °C (500 °F)									
9.7	Flashpoint:	232.22 °C (450 °F) COC									
9.8	Upper/Lower Flammability Limits:	UEL: 7%: LEL 1%									
9.9	Vapor Pressure:	0.01 mmHg									
9.10	Vapor Density:	> 1 (Air = 1)									
9.11	Relative Density:	0.9									
9.12	Solubility:	Slightly soluble									
9.13	Partition Coefficient (log Pow):	NA									
9.14	Autoignition Temperature:	NA									
9.15	Decomposition Temperature:	NA									
9.16	Viscosity:	NA									
9.17	Other Information:	VOC: 20%									
		10. STAE	BILITY	′ & RE	ACTIV	ΊΤΥ					
10.1	Stability:	Relatively stable under ambient co									
10.2	Hazardous Decomposition Products:	If exposed to extremely high tem gases (e.g., metallic oxides, oxide	perature s of carb	es, production & nitro	cts of ther ogen).	mal deco	mposition	may ind	clude irrit	ating vap	ors and to
10.3	Hazardous Polymerization:	Will not occur.									
10.4	Conditions to Avoid:	Exposure or contact to extreme te	_	-,	npatible ch	emicals,	strong ligi	nt source	s, sparks	, flame.	
10.5	Incompatible Substances:	Strong oxidizers, peroxides or stro	ng acids	3.							
		11. TOXICOI	OGIO	CAL IN	IFORM	IATIO	N				
11.1	Routes of Entry:	Inhalation: YES			Absorption:	YES			Ingesti	on: YES	<u> </u>
11.2	Toxicity Data:	This product has NOT been tested available for some of the componently drotreated light naphthenic petro.	ents of th	e produc	and is pre	esented b	elow:			scientific	literature, i
11.3	Acute Toxicity:	Moderate irritation to eyes and drowsiness, dizziness, headaches	skin ne	ar affect						of vapor	rs can cau
	Chronic Toxicity:	This material may aggravate any p									



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BC-027 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.1 SDS Revision Date: 10/25/2018 11. TOXICOLOGICAL INFORMATION – cont'd Suspected Carcinogen: This product contains a severely hydrotreated mineral oil with less than 3 % DMSO extract as measured by IP 346 and is not considered a carcinogen 11.6 Reproductive Toxicity: This product is not reported to produce reproductive toxicity in humans. Mutagenicity This product is not reported to produce mutagenic 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 The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. 118 Biological Exposure Indices: NE Physician Recommendations: 11.9 Treat symptomatically. 12. ECOLOGICAL INFORMATION 12.1 Environmental Stability: Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl. Effects on Plants & Animals: There are no specific data available for this product. An environmental fate analysis has not been conducted on this 12.2 specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleumbased products. 12.3 Effects on Aquatic Life: Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life. 13. DISPOSAL CONSIDERATIONS Waste Disposal: 13.1 Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be provided by a licensed facility or waste hauler. 13.2 Special Considerations: NA 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 and the CTDGR. 14.1 49 CFR (GND): NOT REGULATED 14.2 IATA (AIR) **NOT REGULATED** IMDG (OCN): 14.3 NOT REGULATED TDGR (Canadian GND): 14.4 NOT REGULATED ADR/RID (EU): 14.5 **NOT REGULATED** SCT (MEXICO): 14.6 NOT REGULATED ADGR (AUS): 14.7 **NOT REGULATED** 15. REGULATORY INFORMATION This product does not contain any substances subject to SARA Title III, Section 313 reporting requirements 15.1 SARA Reporting Requirements: 15.2 SARA TPQ: There are no specific Threshold Planning Quantities for the components of this product. 15.3 TSCA Inventory Status: The components of this product are listed on the TSCA Inventory. 15.4 CERCLA Reportable Quantity NA 15.5 Other Federal Requirements: NA 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS 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 Class D2B (Other Toxic Effects). 15.7 State Regulatory Information: Petrolatum is found on the following state criteria list: Pennsylvania Right to Know (PA), and New Jersey Right to No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI). Other Requirements: 15.8 This product does not contain any chemicals known to the State of California to cause cancer or

other reproductive harm. For more information go to www.P65Warnings.ca.gov.



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		16. OTHER INFO	ORMATION				
16.1							
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.					
16.3	Disclaimer:	government regulations must be reviewed for Casey, LLC knowledge, the information contain suitability or completeness is not guaranteed ar The information contained herein relates only	OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other applicability to this product. To the best of ShipMate's & Birchwood and herein is reliable and accurate as of this date; however, accuracy, and no warranties of any type, either expressed or implied, are provided to the specific product(s). If this product(s) is combined with other sidered. Data may be changed from time to time. Be sure to consult the				
16.4	Prepared for:	Birchwood Casey, LLC 3260 Winpark Drive New Hope, MN 55427 USA Tel: +1 (952) 388-6717 Email: customerservice@birchwoodcasey.com http://www.birchwoodCasey.com	BIRCHWOOD CASEY				
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate* Dangerous Goods Training & Consulting				



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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
RTECS No.	Registry of Toxic Effects of Chemical Substances Number
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number

EXPOSURE LIMITS IN AIR:

ACGIH American Conference on Governmental Industrial Hygienists	
IDLH	Immediately Dangerous to Life and Health
NOHSC	National Occupational Health and Safety Commission (Australia)
OSHA	U.S. Occupational Safety and Health Administration
PEL Permissible Exposure Limit	
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

FIRST AID MEASURES:

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

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

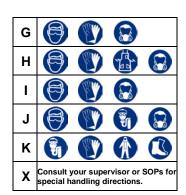
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α			
В			
С		THE STATE OF THE S	
D		THE STATE OF THE S	
Е			
F		THE PERSON NAMED IN COLUMN TO PERSON NAMED I	





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:						
Autoignition	Minimum temperature required to initiate combustion in air with no other source					
Temperature	of ignition					
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, that						
explode or ignite in the presence of an ignition source						
UEL	UEL Upper Explosive Limit - highest percent of vapor in air, by volume, that w					
	explode or ignite in the presence of an ignition source					

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	\ \
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ Y ₩ Y
₩	Use No Water	HEALTH
OX	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

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REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System				
DOT	U.S. Department of Transportation				
TC	Transport 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	®			Θ	(%)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

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