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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 2.2 SDS Revision Date: 11/29/2018 1. PRODUCT & COMPANY IDENTIFICATION NZ DISTRIBUTOR 11 Product Name HOPPER SPIT® Steve's Wholesale Ltd. Units 5 – 7 / 408 The Esplanade 1.2 Chemical Name: Aerosol Petroleum Based Rust Preventative Island Bay Wellington 6023 1.3 Synonyms 33240 team@steveswholesale.nz Hopper Spit® **Emergency Contact: Steve Collings** Trade Names: 1.4 0800 303 303 Product Use: 1.5 Aerosol Corrosion Preventative Compound 0274 905 708 Distributor's Name: 1.6 Birchwood Casey 7887 Fuller Road, Suite #100, Eden Prairie, MN 55344 USA Poison Control 0800 POISON (0800 764 766) Distributor's Address: 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 This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification 2.1 Hazard Identification: criteria of NOHSC: 1088 (2004) and ADG Code (Australia). DANGER! EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED. HARMFUL IF SWALLOWED. MAY CAUSE AN ALLERGIC SKIN REACTION. **CAUSES SERIOUS EYE** IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.. Classification: Aerosol 1; Acute Tox. 4, Skin Sens. 1, Eye Irrit. 2, STOT SE 3 Label Elements: 2.2 Hazard Statements (H): H222 - Extremely flammable aerosol. H229 - Pressurized container may burst if heated. H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction. H319 -Causes serious eye irritation. H335 - May cause drowsiness or dizziness. Precautionary Statements (P) P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO smoking. P211 - Do not spray on an open flame or other ignition source. P243 - Take action to prevent static discharge. P251 -Do not pierce or burn, even after use. P261 - Avoid breathing fume/vapors/spray. P264 - Wash with soap and water thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing may not be allowed out of the workplace. P280 - Wear protective gloves/ eye protection/ protective clothing. P273 – Avoid release to the environment. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 - Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P321 - Specific treatment see section 4 of this SDS. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire use Water Fog, Foam, Dry Chemical, CO2 to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P233 - Keep container tightly closed. P405 - P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF) Other Warnings: KEEP OUT OF REACH OF CHILDREN. 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 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH OSHA NOHSC ppm ppm ppm FS. ES. ES. RTECS No. EINECS No. TI V STEL PEAK STEL IDLH OTHER CHEMICAL NAME(S) CAS No. PEL **TWA** STEL NA NA NA 60-100 100 NA NF NF NF 100 NA NA PROPRIETARY SOLVENT Flam. Liq. 2; Skin Sens. 1; Eye Irrit. 2; STOT SE 3; H225, H317, H319, H335, H336 270-705-8 68476-86-8 NA NA NA NF NF 5 NA NA MIST HYDROCARBON PROPELLANT Flam. Gas 1; Liq. Gas 1; Acute Tox. 4; H220, H280, H332



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			4. FIRST AID MEASURES	
4.1	First Aid:	Ingestion:	DO NOT INDUCE VOMITING. Contact Poison Control Control Center or local emergency telephone number for medical attention. If vomiting occurs spontaneously, keerisk of aspiration.	or assistance and instructions. Seek immediate
		Eyes:	If product gets in the eyes, flush eyes thoroughly with co- holding eyelid(s) open to ensure complete flushing. following use, consult a physician or emergency room imi	If the eyes or face become swollen during or
		Skin:	Remove contaminated clothing and wash affected area and/or the skin reaction worsens, contact a physician in until after it has been properly cleaned.	as with soap and water. If discomfort persists mmediately. Do not wear contaminated clothing
		Inhalation:	Remove victim to fresh air at once. Under extreme respiration. Seek immediate medical attention.	
4.2	Effects of Exposure:	Ingestion: Eyes: Skin: Inhalation:	If product is swallowed, may cause nausea, vomiting depression. Irritating to the eyes. Symptoms of overexposure may incl May be irritating to skin in some sensitive individuals, espe Vapors of this product may be slightly irritating to the n system. Symptoms of overexposure can include cough breathing. Deliberate inhalation of vapors can cause centred izziness, headaches, nausea).	lude redness, itching, irritation and watering. ecially after prolonged and/or repeated contact. lose, throat and other tissues of the respiratory hing, wheezing, nasal congestion, and difficulty
4.3	Symptoms of Overexposure:	Ingestion:	Nausea, intestinal discomfort, vomiting and/or diarrhea.	
		Eyes:	Overexposure in eyes may cause redness, itching and wat	tering.
		Skin:	Symptoms of skin overexposure may include redness, it like symptoms. The product can cause allergic skin regindividuals.	ching, and irritation of affected areas. Frostbite actions (e.g., rashes, welts, dermatitis) in some
		Inhalation: consciousne	High concentrations of vapors can cause drowsiness,	dizziness, headaches and nausea or loss of
4.4	Acute Health Effects:		g when used as directed. Moderate irritation to eyes an	nd skin near affected areas. Additionally, high
			ns of vapors can cause drowsiness, dizziness, headaches a	
4.5	Chronic Health Effects:		ed by the manufacturer.	
4.6	Target Organs: Medical Conditions	Eyes, Skin	dama diti ada a librara diti a a diti a a di di a da a da a da	4
4.7	Aggravated by Exposure:	organs (eyes	dermatitis, other skin conditions, and disorders of the target	_
			•	FLAMMABILITY 4
				PHYSICAL HAZARDS 0
				PROTECTIVE EQUIPMENT B
				EYES SKIN LUNGS
			5. FIREFIGHTING MEASURES	
5.1	Fire & Explosion Hazards:	EYTPEMEI	Y FLAMMABLE AEROSOL. Level 3 Aerosol (NFPA 30	OR) Aerosols may hurst at
J. 1	THE & EXPLOSION NEZZIUS.	temperature be projectile not use in p other source Water from	is above 120 °F. Cool uninvolved containers to prevent post hazards when bursting. If aerosols are bursting, stay clear resence of open flames or sparks. Do not place in hot wate es of heat. Exposure to heat or sunlight may cause cans fog nozzles may be helpful in cooling un-ruptured containers	until bursting. Aerosols may until bursting is complete. Do er or near radiators, stoves or to burst and propel contents.
5.2	Extinguishing Methods:		(if permitted), Dry Chemical, Foam, as authorized.	
5.3	Firefighting Procedures:	This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product.		
			6. ACCIDENTAL RELEASE MEASUR	ES
6.1	Spills:	Equipment apron, boots Small Spills shovel and Large Spills	ining any spill or leak, individuals involved in spill clean (PPE). Use safety glasses or safety goggles and face shields, etc.) to prevent skin contact. E: Wear appropriate protective equipment including gloves broom to pick up the product and place into a container for late. E: Keep incompatible materials (e.g., organics such as oil, or	up must wear appropriate Personal Protective d; use gloves and other protective clothing (e.g., and protective eyewear. Use a non-sparking ater disposal. xidizers) away from spill. Stay upwind and away
		if it can be o warrant. Re	release. Isolate immediate hazard area and keep unauthor done with minimal risk. Wear appropriate protective equipm ecover as much free solid as possible and collect in acid a sewer or surface waters.	ent including respiratory protection as conditions



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of the reach of children. Do not eat, drink or smoke when handling this product. Wash thoroughly at expose to heat and flame. Use only in ventilated areas. Keep out of the reach of children. Immer decontaminate any spills or residues. Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surfactosed tightly when not in use. Empty container may contain residual amounts of this product containers should be handled with care. Store containers in a cool, dry location, away from direct sources, or sources of intense heat. Storage temperature: 32-120 °F (0-49 °C). Take precautional static discharge. Store away from incompatible materials (See Section 10). Reep container tightly closed when not in use. Empty containers may contain residual amounts of this empty containers should be handled with care. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION 8.1 Exposure Limits: PROPRIETARY SOLVENT ACGIH NOHSC OSHA CHEMICAL NAME(S) TLV STEL STEL PROPRIETARY SOLVENT HYDROCARBON PROPELLANT NA NF NF NF NF NF NA NF NF NF			7 HANDLING	& ST()BAG	F INFC	DMΔ	TION				
Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surfuce closed lightly when not in use. Empty container may contain residual mounts of this product containers should be handled with care. Store containers in a cool, dry location, away from direct sources, or sources of intense heat. Storage temperature: 32-120 °F (0-49 °C). Take precautions static discharge. Store away from incompatible materials (See Section 10). Responsive Limits:	7.1	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. Keep out of the reach of children. Immediately clean-up and										
Second Controls Second Control Sec	7.2	Storage & Handling:	Keep this material away from heat closed tightly when not in use containers should be handled with sources, or sources of intense hea	Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Storage temperature: 32-120 °F (0-49 °C). Take precautionary measures against								
8. EXPOSURE CONTROLS & PERSONAL PROTECTION Supposure Limits: ppm (mg/m²) ACGIH NOHSC OSHA	7.3	Special Precautions:	Keep container tightly closed wher	n not in u	se. Emp	ty containe	ers may o	contain res	sidual am	ounts of	this proc	luct; therefore,
Exposure Limits: ppm (mg/m²) Exposure Limits: ppm (mg/m²) ppm (m			empty containers should be handle	ed with ca	are.							
Exposure Limits: ppm (mg/m²) Exposure Limits: ppm (mg/m²) ppm (m			EYPOSUBE CONT	DOI 6	9 DE	DSON	AI DE	OTEC	HOLT			
the ppm (mg/m²) CHEMICAL NAME(8) TILV STEL ES-TWA STEL PEAK PEL STEL PROPRIETARY SOLVENT 100 NA NF NF NF NF 100 NA NF NF NF NF 100 NA HYDROCARBON PROPELLANT NA NA NF NF NF NF 15 NA SECONTROLS: Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist handling of this product. Ensure appropriate decontamination equipment is available (e.g., sink, safet station). In instances where vapors or sprays of this product are generated, and respiratory protection is need use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canac CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, Australia. Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product ways use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazz soft lenses may absorb and concentrate irritants. Beautiful Protection: If anticipated that prolonged & repeated skin contact will occur during use of this product, wear later rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, appropriate standards of Canada, of the E.C. member states. No apron required when handling small quantities. When handling large quantities (e.g., ≥ 1 gallic eye wash stations and deluge showers should be available. Upon completion of work activities involved large quantities of this product, wash any exposed areas thoroughly with soap and water. PHYSICAL & CHEMICAL PROPERTIES 9. PHYSICAL & CHEMICAL PROPERTIES NA NA NA NA NA NA NA NA NA N	8.1	Exposure Limits:	6. EXPOSORE CONT			K3ON.		VOIL	IION	OSHA		OTHER
PROPRIETARN'SQLVENT 100	0.1						ES-					OTTLE
8.2 Ventilation & Engineering Controls: Na Vision & Engineering Controls: Na In Instances where vapors or sprays of this product are generated, and respiratory protection is need use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canac CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, Australia. Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product variations are protective eyewear when cleaning spills or leaks. Contact lenses pose a special haza soft lenses may absorb and concentrate irritants. Na protection: Na protection: Vision Protection: Na Appearance: Ap									1		IDLH	
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B.5	8.4	Eye Protection:	Always use protective eyewear w	hen clea	ning spil							
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9.15 Decomposition Temperature: NA 9.16 Viscosity: NA	9.13	Partition Coefficient (log Pow):										
9.16 Viscosity: NA	9.14	Autoignition Temperature:										
, 107	9.15	Decomposition Temperature:										
9.17 Other Information: Volatiles, % by weight: 59. VOC, method EPA 24, lb/gal 2.9; 24, g/L 348.	9.16	Viscosity:										
	9.17	Other Information:	Volatiles, % by weight: 59. VOC, r	method E	PA 24, II	o/gal 2.9; 2	4, g/L 34	18.				
10. STABILITY & REACTIVITY			10. STA	BILIT'	Y & R	EACTI	VITY					
10.1 Stability: Stable at normal temperatures.	10.1	Stability:										
Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, aldehydes, hydrocarbons and ammonia.		Products:	Carbon dioxide, carbon monoxide, aldehydes, hydrocarbons and ammonia.									
10.3 Hazardous Polymerization: Will not occur.			This teed.									
10.4 Conditions to Avoid: Excessive heat exposure to incompatible material (see 10.5). 10.5 Incompatible Substances: Strong exidizing agents, hypochlorites and Chlorine		Exposers fleat exposure to informpatible material (600 10.0).										
10.5 Incompatible Substances: Strong oxidizing agents, hypochlorites and Chlorine	10.5	moompatible oubstances:	Strong oxidizing agents, hypochlor	ites and	Cniorine							



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 2.2 SDS Revision Date: 11/29/2018 11. TOXICOLOGICAL INFORMATION Routes of Entry: Ingestion: YES 11 1 Toxicity Data: 11 2 This product has not been tested on animals to obtain toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature. This data has not been presented in this document. 11.3 Acute Toxicity: See Section 4.4 Chronic Toxicity: See Section 4.5 11.4 Suspected Carcinogen: 11.5 No. 11.6 Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans. Mutagenicity: This product is not reported to produce mutagenic effects in humans. This product is not reported to produce embryotoxic effects in humans Embryotoxicity Teratogenicity: This product contains nickel sulfate, which is 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 4.2 11.8 Biological Exposure Indices: ΝE 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION Environmental Stability: 12.1 There are no specific data available for this product. 12.2 Effects on Plants & Animals: There are no specific data available for this product. 12.3 Effects on Aquatic Life Avoid release to the environment. 13. DISPOSAL CONSIDERATIONS Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate 13.1 Waste Disposal: 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 U.S. EPA Hazardous Waste - Characteristic - Flammable (D001) 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 49 CFR (GND): CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) - until 12/31/20 UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 14.2 IATA (AIR)*: CONSUMER COMMODITY, 9, ID8000 (IP VOL ≤ 0.5 L) A)Adh UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL ≤ 0.5 L) 14.3 IMDG (OCN): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 14.4 TDGR (Canadian GND): MARK PACKAGE ("LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (IP VOL ≤ 1.0 L) or UN1950, AEROSOLS, FLAMMABLE, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) ADR/RID (EU): 14.5 UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) 14 6 SCT (MEXICO): UN1950, AEROSOLES, 2.1 (CANT. LTDA., IP VOL ≤ 1.0 L) ADGR (AUS): UN1950, AEROSOLS, 2.1 (LTD QTY, IP VOL ≤ 1.0 L) HSR002515 15. REGULATORY INFORMATION SARA Reporting 15.1 This product does not contain any substance subject to Section 313 reporting requirements. Requirements 15.2 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: 15.5 Other Federal Requirements: This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA. 15.6 Other Canadian Regulations: This product has been classified according to the hazard criteria of the CPR and the Safety Data Sheet 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 B2, D2B (Flammable Liquid, Other Toxic Effects)



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		15. REGULATORY INFORMATION – cont'd
15.7	State Regulatory Information: Other Requirements:	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 (CA), 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). 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
		16. OTHER INFORMATION SW revised 30.12.2020
16.1	Other Information:	DANGER! HIGHLY FLAMMABLE LIQUID AND VAPOR. PRESSURIZED CONTAINER AMY BURST IF HEATED. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO smoking. Do not spray on an open flame or other ignition source. Take action to prevent static discharge. Do not pierce or burn, even after use. Avoid breathing fume/vapors/spray. Wash with soap and water thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing may not be allowed out of the workplace. Wear protective gloves/ eye protection/ protective clothing. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment see section 4 of this SDS. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire use Water Fog, Foam, Dry Chemical, CO ₂ to extinguish. Store in a well-ventilated place. Keep cool. Keep container tightly closed. 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 & Birchwood Casey, LLC 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:	Birchwood Casey, LLC 3260 Winpark Drive New Hope, MN 55427 USA Tel: +1 (952) 388-6717 Email: customerservice@birchwoodcasey.com http://www.birchwoodCasey.com
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



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SDS Revision Date: 11/29/2018

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards

SDS Revision: 2.2

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	ACGIH American Conference on Governmental Industrial Hygienists	
IDLH	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

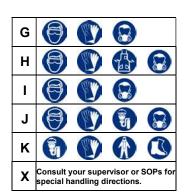
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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



PERSONAL PROTECTION RATINGS:

Α		
В		
С		
D		
Е		
F		





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic	
Irrit	Irritant	
NA	Not Available	
NR	No Results	
ND	Not Determined	
NE	NE Not Established	
NF	Not Found	
SCBA	Self-Contained Breathing Apparatus	
Sens	Sens Sensitization	
STOT RE	STOT RE Specific Target Organ Toxicity – Repeat Exposure	
STOT SE	OT 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				
	explode or ignite in the presence of an ignition source			
UEL				
	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	2
ALK	Alkaline	
COR	Corrosive	/ \ \
W	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
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, TCo, LCio, & LCo	
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TLm	Median threshold limit
log Kow or log Koc	Coefficient of Oil/Water Distribution
IARC NTP RTECS BCF TL _m	National Toxicology Program Registry of Toxic Effects of Chemical Substances Bioconcentration Factor Median threshold limit

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	®	(S)	(X)	Θ	®		Ŕ
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:

		③	\Diamond			\Diamond		(
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment