

SAFETY DATA SHEET

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


SDS Revision: 1.2

SDS Revision Date: 10/31/2016

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	SUPER STEAM HD
1.2	Chemical Name:	Sodium Hydroxide Mixture
1.3	Synonyms:	NA
1.4	Trade Names:	Super Steam HD
1.5	Product Uses & Restrictions:	Professional Use Only
1.6	Distributor's Name:	Cal Pac Chemicals, Inc.
1.7	Distributor's Address:	6231 Maywood Avenue, Huntington Park, CA 90255
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN XXXXX)
1.9	Business Phone / Fax:	+1 (323) 585-2178

2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	<p>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).</p> <p>DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. HARMFUL IF SWALLOWED.</p> <p><u>Classification:</u> Skin Corr. 1B; STOT SE 3; Acute Tox. 4</p> <p><u>Hazard Statements (H):</u> H314 – Causes severe skin burns and eye damage. H335 – May cause severe respiratory irritation. H302 – Harmful if swallowed.</p> <p><u>Precautionary Statements (P):</u> P260 – Do not breathe dust or mist. P261 – Avoid breathing dust/mist/vapor/spray. P264 – Wash thoroughly with soap and water after handling. P270 – Do not eat drink or smoke when using this product. P271 – Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/ eye protection/face protection. P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P363 – Wash contaminated clothing before reuse. P310 – Immediately call a POISON CENTER/doctor if you feel unwell. P321 – Specific treatments see this container or label. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 – Call a POISON CENTER/doctor if you feel unwell. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P4023+P233 – Store in a well-ventilated place. Keep container tightly closed. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p>	
-----	------------------------	---	--

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					TLV	STEL	ppm			PEL	STEL	IDLH		
SODIUM CARBONATE	497-19-8	NA	207-838-8	30-60	NA	NA	NF	NF	NF	NA	NA	NA		
	Eye Irrit. 2; H319													
SODIUM HYDROXIDE	1310-73-2	WB4900000	215-185-5	15-40	(2)	NA	(2)	NF	NF	(2)	NA	(10)	(2) NIOSH	
	Skin Corrosion 1A; 1; H314													
SODIUM METASILICATE	6834-92-0	VV9275000	229-912-9	5-10	2	NA	NF	NF	NF	2	NA	NA	DUST	
	Acute Tox. 4; Skin Corr. 1B; Serious Eye Dam. 1; STOT SE 3; H302, H314, H335													

4. FIRST AID MEASURES

4.1	First Aid:	<p><u>Ingestion:</u> INDUCE VOMITING. Drink 1-2 large glasses of milk or water. Never give anything by mouth to an unconscious person. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison 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 risk of aspiration.</p> <p><u>Eyes:</u> Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to ensure complete flushing. If irritation persists, seek immediate medical attention.</p> <p><u>Skin:</u> Remove contaminated clothing and wash affected areas with soap and water and flush with plenty of water for at least 15 minutes. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. Get medical attention immediately.</p> <p><u>Inhalation:</u> Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek immediate medical attention. If breathing stops, perform artificial respiration or CPR, as necessary.</p>
-----	------------	--

SAFETY DATA SHEET

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


SDS Revision: 1.2

SDS Revision Date: 10/31/2016

4. FIRST AID MEASURES – cont'd

4.2	Effects of Exposure:	<p><u>Ingestion:</u> Gastrointestinal irritation, nausea, and/or vomiting.</p> <p><u>Eyes:</u> Irritation or burns may result in redness, pain, and possible corneal damage.</p> <p><u>Skin:</u> Redness, irritation, rash at site of exposure.</p> <p><u>Inhalation:</u> Irritation to nasal membranes, mouth, throat, bronchial tube and lungs. May cause coughing, shortness of breath.</p>											
4.3	Symptoms of Overexposure:	<p><u>Ingestion:</u> Intestinal discomfort, nausea, vomiting, and diarrhea. An asthmatic reaction may occur after ingestion.</p> <p><u>Eyes:</u> Irritation, redness, swelling and watering.</p> <p><u>Skin:</u> Contact dermatitis, characterized by localized red or puffy dry skin and itching.</p> <p><u>Inhalation:</u> Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, difficulty in breathing, frequent coughing, or chest pain. May cause allergic reactions in sensitive individuals.</p>											
4.4	Acute Health Effects:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if swallowed. Causes burns. May be harmful if absorbed through skin. Causes skin burns.											
4.5	Chronic Health Effects:	May damage the nervous system, kidney and/or liver.											
4.6	Target Organs:	Eyes, Skin, Lungs (Corrosive), Kidneys.											
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, and respiratory system) or impaired kidney function may be more susceptible to the effects of this substance.	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white; padding: 2px;">HEALTH</td> <td style="text-align: center; padding: 2px;">2</td> </tr> <tr> <td style="background-color: #FF0000; color: white; padding: 2px;">FLAMMABILITY</td> <td style="text-align: center; padding: 2px;">0</td> </tr> <tr> <td style="background-color: #FFA500; color: white; padding: 2px;">PHYSICAL HAZARDS</td> <td style="text-align: center; padding: 2px;">1</td> </tr> <tr> <td style="background-color: #000000; color: white; padding: 2px;">PROTECTIVE EQUIPMENT</td> <td style="text-align: center; padding: 2px;">B</td> </tr> <tr> <td style="padding: 2px;">EYES</td> <td style="padding: 2px;">SKIN</td> </tr> </table>	HEALTH	2	FLAMMABILITY	0	PHYSICAL HAZARDS	1	PROTECTIVE EQUIPMENT	B	EYES	SKIN
HEALTH	2												
FLAMMABILITY	0												
PHYSICAL HAZARDS	1												
PROTECTIVE EQUIPMENT	B												
EYES	SKIN												

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	WARNING: This material won't burn without driving off water. Fight fire as for surrounding materials.	
5.2	Extinguishing Methods:	Foam, Water, Carbon Dioxide, Water Fog or Dry Chemical	
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. Fight fires as for surrounding materials. 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

6.1	Spills:	<p>Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective 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.</p> <p><u>Small Spills:</u> Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible, inert material such as vermiculite or sand to soak up the product and place into a container for later disposal.</p> <p><u>Large Spills:</u> Keep incompatible materials (e.g., acids, powdered metals) 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.</p>
-----	---------	---

7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Avoid contact to eyes, skin, and mucous membranes. Avoid inhalation of vapors, gases, fumes and dusts. Wash thoroughly after handling and use. Do not smoke, eat, drink, chew gum or tobacco, or apply cosmetics within the working area. Do not store or bring tobacco products, gum, food, drinks or cosmetics within the working area. Otherwise follow the standards of good industrial hygiene practices.
7.2	Storage & Handling:	No unusual methods are required. Keep product contained and retain all warning and identity labels. Preferred storage is a sheltered warm area with temperature and humidity control to prevent high humidity. Product should be stored between 40 °F (5 °C) and 95 °F (35 °C). Store out of direct sunlight. Keep out of the reach of children. Keep away from open flames, sparks, and other possible sources of ignition. Keep away from incompatible materials listed in Section 10. Open containers slowly on a stable surface. Keep container tightly closed when not in use.
7.3	Special Precautions:	For industrial and institutional use only. Mix only with water. Thoroughly rinse empty containers. Read and understand the manufacturer's instructions and the precautionary label on this product.




SAFETY DATA SHEET

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

SDS Revision: 1.2

SDS Revision Date: 10/31/2016

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m ³)		ACGIH		NOHSC			OSHA			OTHER
		CHEMICAL NAME(S)	TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		SODIUM HYDROXIDE	(2)	NA	(2)	NF	NF	(2)	NA	(10)	(2) NIOSH
		SODIUM METASILICATE	2	NA	NF	NF	NF	2	NA	NA	DUST
8.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. 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).									
8.3	Respiratory Protection:	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.									
8.4	Eye Protection:	Safety glasses with side shields must be used when handling or using this product. A protective face shield is also recommended.									
8.5	Hand Protection:	Wear rubber, neoprene or nitrile gloves when using or handling this product.									
8.6	Body Protection:	Clean, body-covering clothing. In addition, rubber, neoprene or nitrile boots, and/or apron are recommended.									

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Off-white powder
9.2	Odor:	Mild soap odor
9.3	Odor Threshold:	NA
9.4	pH:	13.5
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	NA
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	1.15
9.12	Solubility:	Appreciable
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	NA
9.17	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	Strength diminishes somewhat with age. Gradually decomposes in air to sulfate, generated sulfurous acid gas. Contact with moisture will release toxic sulfur dioxide gas.
10.2	Hazardous Decomposition Products:	Phosphorous oxides, hydrogen.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Use or storage near open flames, sparks, high heat (> 200 °F) or other heat sources, and proximity to incompatible substances (e.g., strong acids, oxidizers)
10.5	Incompatible Substances:	Strong oxidizing agents, strong acids. Will release heat.

11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation: YES	Absorption: YES	Ingestion: YES
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, but is not presented in this document.		
11.3	Acute Toxicity:	See Section 4.4		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	No		
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.		
11.7	Irritancy of Product:	The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.		

SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS & 1272/2008/EC Standards SDS Revision: 1.2 SDS Revision Date: 10/31/2016

11. TOXICOLOGICAL INFORMATION – cont'd

11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.

12. ECOLOGICAL INFORMATION


12.1	Environmental Stability:	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:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

13. DISPOSAL CONSIDERATIONS


13.1	Waste Disposal:	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):	UN 1759 Corrosive Solid N.O.S. (Sodium Hydroxide& Disodium Trioxosilicate)	
14.2	IATA (AIR):	UN 1759 Corrosive Solid N.O.S. (Sodium Hydroxide & Disodium Trioxosilicate)	
14.3	IMDG (OCN):	UN 1759 Corrosive Solid N.O.S. (Sodium Hydroxide & Disodium Trioxosilicate)	
14.4	TDGR (Canadian GND):	UN 1759 Corrosive Solid N.O.S. (Sodium Hydroxide & Disodium Trioxosilicate)	
14.5	ADR/RID (EU):	UN 1759 Corrosive Solid N.O.S. (Sodium Hydroxide & Disodium Trioxosilicate)	
14.6	SCT (MEXICO):	UN 1759 Corrosive Solid N.O.S. (Sodium Hydroxide & Disodium Trioxosilicate)	
14.7	ADGR (AUS):	UN 1759 Corrosive Solid N.O.S. (Sodium Hydroxide & Disodium Trioxosilicate)	

15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.	
15.2	SARA Threshold Planning Quantity:	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 (RQ):	<u>Sodium Hydroxide</u> : 454 kg (1,000 lbs.)	
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/NDL. None of the components of this product are listed on the Priorities Substances List. WHMIS Class D2B (materials causing other toxic effects).	
15.7	State Regulatory Information:	<u>Sodium Sulfate</u> can be found on the following state criteria list: New Jersey Right-to-Know List (NJ) and Pennsylvania Right-to-Know List (PA). <u>Trisodium Phosphate</u> can be found on the following state criteria list: MN and PA. <u>Sodium Metasilicate</u> is found on the following state criteria lists: NJ and PA. <u>Sodium Hydroxide</u> is found on the following state criteria list: FL, MA, MN, NJ, PA and WA. 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).	
15.8	Other Requirements:	NA	

SAFETY DATA SHEET


Page 5 of 6
CPC-014

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

SDS Revision: 1.2

SDS Revision Date: 10/31/2016

16. OTHER INFORMATION

16.1	Other Information:	DANGER! CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. HARMFUL IF SWALLOWED. Do not breathe dust or mist. Avoid breathing dust/mist/vapor/spray. Wash thoroughly with soap and water after handling. Do not eat drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor if you feel unwell. Specific treatments see this container or label. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store in a well-ventilated place. Keep container tightly closed. Store locked up. KEEP LOCKED UP AND 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 & Cal Pac Chemicals, Inc.'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:	Cal Pac Chemicals, Inc. 6231 Maywood Avenue Huntington Park, CA 90255 USA Tel: +1 (323) 585-2178 http://www.cal-pac-chemicals.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	

SAFETY DATA SHEET

Page 6 of 6
CPC-014

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

SDS Revision: 1.2

SDS Revision Date: 10/31/2016

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
C	Ceiling Limit
ES	Exposure Standard (Australia)
IDLH	Immediately Dangerous to Life and Health
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.
------------	--

HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH FLAMMABILITY PHYSICAL HAZARDS PERSONAL PROTECTION
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:

A		G	
B		H	
C		I	
D		J	
E		K	
F		X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Synthetic Apron	Protective Clothing & Full Suit	Dust Respirator
Full Face Respirator	Dust & Vapor Half-Mask Respirator	Full Face Respirator	Airline Hood/Mask or SCBA

OTHER STANDARD ABBREVIATIONS:

ML	Maximum Limit
mg/m3	milligrams per cubic meter
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
ppm	parts per million
SCBA	Self-Contained Breathing Apparatus

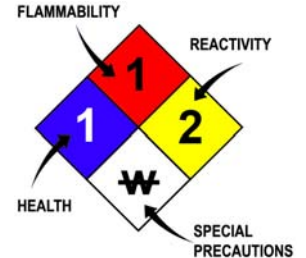
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
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
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₀₁	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₀₁, LD₀₁, & LD₀₂ or TC, TC₀₁, LC₀₁, & LC₀₂	Lowest dose (or concentration) to cause lethal or toxic effects
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 K_{ow} or log K_{oc}	Coefficient of Oil/Water Distribution

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
NOHSC	National Occupational Health and Safety Commission (Australia)
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)
HMIS-III	National Paint & Coatings Association Hazardous Materials Identification System

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

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:

C	E	F	N	O	T	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

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

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