HAIR SYSTEMS INC. Processes & Packages of Zeality Hure (free Products

SAFETY DATA SHEET

Page 1 of 7

SDS Revision: 1.2 Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards SDS Revision Date: 1/1/2018 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: JPMS DUAL PURPOSE LIGHTENER 12 Chemical Name Persulfate Blend 1.3 Synonyms: Blend 0025 1.4 Trade Names: JPMS Dual Purpose Lightener 15 Product Uses & Restrictions Professional Cosmetic Use Only 1.6 Distributor's Name: Hair Systems, Inc. 1.7 Distributor's Address: 30 Park Avenue, Englishtown, NJ 07726 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 10069) +1 (732) 446-2202 / +1 (732) 446-7968 19 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: 1008 (2004) and ADG Code (Australia). DANGER! MAY INTENSIFY FIRE; OXIDIZER. HARMFUL IF SWALLOWED. CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING IRRITATION. DIFFICULTIES IF INHALED. MAY CAUSE RESPIRATORY IRRITATION. Classification: Oxidizing Solid - Category 3; Acute Toxicity - Category 4; Skin Irritation - Category 2; Eye Irritation - Category 2A; Respiratory Sensitization - Category 1; Skin Sensitization -Category 1; Single Target Organ Toxicity (Single Exposure) - Category 3. Hazard Statements (H): H272 - May intensify fire; oxidizer. H302 - Harmful if swallowed. H315 -Causes skin irritation. H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation. H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. Precautionary Statements (P): P210 - Keep away from heat/sparks/open flames/hot surfaces - No smoking. P220 - Keep/Store away from clothing/cotton/combustible materials. P261 - Avoid breathing dust/fumes. 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. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P284 - If necessary, wear respiratory protection. P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+P352 - IF ON SKIN: Wash with soap and water. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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. P312 - Call a POISON CENTER or doctor/physician if you feel unwell. P321 -Specific treatment (see section 4 of the Safety Data Sheet or the product label). P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or a rash occurs: Get medical advice/attention. P337+P313 - If eve irritation persists get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P362+P364 - Take off contaminated clothing and wash before reuse. P370+P378 - In case of fire: Use CO2, Halon (if permitted), dry chemical, or foam for extinction. P403+P233 - Store in a well ventilated place. Keep container tightly closed. P405 -Store locked up. P501 - Dispose of contents/container to licensed treatment, storage or disposal facility (TSDF). 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm FS-FS-FS-TLV STEL PEL STEL CHEMICAL NAME(S) CAS No RTECS No. EINECS No. STEL PEAK IDLH OTHER TWA 30-50 7727-21-1 SE0400000 231-781-8 (0.1) NA NF NF NF NA NA NA POTASSIUM PERSULFATE Ox. Sol. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Resp. Sens. 1; Skin Sens. 1; STOT SE 3; H272, H302, H315, H317, H319, H334, H335 1344-09-8 NA 215-687-4 10-30 NA NA NF NF NF NA NA NA SODIUM SILICATE Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; H302, H315, H318 VV9275000 229-912-9 1-10 NA NA NF NF NF NA NA NA 6834-92-0 SODIUM METASILICATE Acute Tox. 4; Skin Corr. 1B; Serious Eye Dam. 1; STOT SE 3; H302, H314, H335 7775-27-1 SE0535000 231-892-1 1-10 NA NA NF (0.01) NF NA NA NA SODIUM PERSULFATE Ox. Sol. 3; Acute Tox. 4; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; Resp. Sens. 2; H272, H302, H315, H317, H319, H334



Page 2 of 7

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

SDS Revision: 1.2

		4. FIRST AID MEASURES								
4.1	4.1 First Aid: Ingestion: If ingested, do not induce vomiting. Drink plenty of water or milk. If the patient is vomiting, conti offer plenty of water or milk. Never give water or milk to an unconscious person. If large quantiti ingested, contact the nearest Poison Control Center or local emergency number. Provide an estim the time and amount of the substance that was swallowed. Get medical attention immediately.									
		Eyes: If product is in the eyes, flush with copious amounts of water for at least 15 minutes. Remove conta lenses if present and easy to do, continue flushing. Open and close eyelid(s) to ensure thoroug irrigation. If problem persists, consult a physician.								
		Skin: If redness, dryness or other signs of irritation to the skin develop, remove contaminated clothing and wash affected skin areas with plenty of warm water and soap. If irritation persists, consult a physician.								
4.2	Effects of Exposure:	Inhalation: Give oxygen as necessary and get medical attention. Ingestion: May cause irritation in mouth and throat. Swallowing may cause evolution of oxygen which may cause injury by distention of the esophagus or stomach. May cause nausea, vomiting and diarrhea. Eyes: May cause irritation, redness, stinging and tearing. When bleach powders are mixed with peroxides or developers, the resulting mixture may cause severe eye irritation and possible eye injury. Skin: May be irritating to skin, especially after prolonged contact. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. Inhalation: Prolonged exposure may cause irritation in nose and throat with chest discomfort, coughing and difficulty breathing. Excessive inhalation of dust may result in sensitization and irritation to respiratory tract. May cause asthma-like symptoms in some sensitive individuals.								
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.								
4.4	Acute Health Effects:	Moderate irritation to skin near affected areas. This product causes serious eye irritation.								
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 Aggravated by Exposure:	Acute health hazards may be delayed. Most common symptoms include irritating properties to eyes, respiratory system and skin. HEALTH 1 Existing dermatological conditions (such as eczema) and respiratory conditions (such as bronchial asthma and/or bronchitis) may be aggravated. FLAMMABILITY 1 PHYSICAL HAZARDS 1 PROTECTIVE EQUIPMENT B EYES SKIN								
		5. FIREFIGHTING MEASURES								
5.1	Fire & Explosion Hazards:	DANGER! MAY INTENSIFY FIRE; OXIDIZER. Upon decomposition, persulfates yield oxygen and may thereby stimulate combustion of flammable and combustible materials. Extinguish fires with media appropriate for the burning material. Product contains oxidizing materials. Residual product on towels, sponges or mops may cause fire. Rinse towels thoroughly before disposal. Rinse sponges and mops thoroughly before storage. Persulfate compounds may ignite and undergo decomposition in the presence of moisture and heat. Spray and flood decomposing material with large quantities of water.								
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized. Water and/or foam – typically a Class A or Class B extinguisher should be sufficient for the product. However, selection of a fire extinguisher should also be appropriate to address the location of the fire and equipment involved. Flood with water and use water spray to cool fire-exposed containers and structures.								
5.3	Firefighting Procedures:	Flood with water and use water spray to cool fire-exposed containers and structures. This product is an oxidizer and may intensify fire. As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personnel. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous decomposition products. <u>HazChem Code</u> : 2P <u>Hazard Identification Number</u> : 50								
		6. ACCIDENTAL RELEASE MEASURES								
6.1	Spills:	Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. Plastic or rubber gloves, respirator, eye protection and apron may be required for clean-up of large spills. <u>Small Spills</u> : (e.g., ≤ 1.0 lbs (0.45 kg)). Wear appropriate protective equipment including gloves and protective eyewear. Use a non-combustible material such as vermiculite or sand to soak up the product and place into a container for later disposal. Do not use water or a material such as "speedy dry" to soak up material. Sweep up material using non- sparking materials (e.g., plastic brooms, shovels, dustpans) and place into a plastic container or plastic liner within another container. <u>Large Spills</u> : (e.g., > 1.0 lbs (0.45 kg)) Keep incompatible materials (e.g., organics such as oil) 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								



Page 3 of 7

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

SDS Revision: 1.2

		7. HANDLIN	IG &	STO	RAGE	INFOR		N				
7.1	Work & Hygiene Practices:	Do not eat, drink or smoke when handling this product. Wash thoroughly after handling. Avoid contact with flammable or combustible materials. Avoid contamination from any source, including metals, dust and organic materials. Keep bulk materials covered. Use chemical goggles if eye contact is possible. Wash unintentional residues with soap and warm water.										
7.2	Storage & Handling:	Keep this material away from heat, sparks and open flame. Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans) away from heat and direct sunlight. Avoid temperatures above 120 °F (49 °C). Keep away from incompatible substances. Protect containers from physical damage. To avoid unintentional spraying keep cap in place when not in use. Store away from incompatible materials (see Section 10).										
7.3	Special Precautions:	Spilled material may present to come into contact with m utensils inside containers of p	oisture (
		8. EXPOSURE CO	NTRO	OLS (& PER	SONA	L PROT	ГЕСТ	ION			
8.1	Exposure Limits:		ACO	ЭIH		NOHSC			OSHA		OTHER	
	ppm (mg/m ³)	CHEMICAL NAME(S) POTASSIUM PERSULFATE	TLV (0.1)	STEL NA	ES-TWA	ES-STEL NF	ES-PEAK NF	PEL NA	STEL NA	IDLH NA		
		SODIUM PERSULFATE	(0.1)	NA	NF	(0.01)	NF	NA	NA	NA		
8.2	Ventilation & Engineering Controls:	When working with large quare exposure below the airborne exposure to eyes.	ntities of	f produc	t, provide	adequate	ventilation	(e.g., lo	cal exh	aust ver		
8.3	Respiratory Protection:	necessary, use only respirat §1910.134, or applicable U.	No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.									
8.4	Eye Protection:	Avoid contact. Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.										
8.5	Hand Protection:	If anticipated that prolonged latex or rubber gloves for r §1910.138, the appropriate st	outine i	industria	al use. I	f necessa	ry, refer to	0 U.S.				
8.6	Body Protection:	appropriate protective clothin	No special body protection is required under typical circumstances of use and handling. Wear appropriate protective clothing to prevent skin contact, (e.g., boots, lab coat, apron, coveralls) as needed. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S.									
		9. PHYSIC	NI 2					6				
9.1	Appearance:	White powder						3				
9.2	Odor:	Bleach odor. Sandlewood fra	arance									
9.3	Odor Threshold:	NA	granoc.									
9.4	pH:	10.3-10.9										
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:	< 0.5										
9.12	Solubility:	4.7 g in 100 mL water										
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 @ 21 °C (70 °F): 0										



Page 4 of 7

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

SDS Revision: 1.2

		10. STABILITY & REACTIVITY
10.1	Stability:	Unstable. Gradually decomposes losing oxygen. Decomposes more rapidly at higher temperatures. Metals other than stainless steel are apt to cause decomposition of persulfate solutions. Generates heat when mixed with acid. May react with ammonium salt solutions resulting in evolution of ammonia gas. Liberation of oxygen gas may result in dangerous pressures.
10.2	Hazardous Decomposition Products:	If exposed to <u>extremely high temperatures</u> , products of thermal decomposition may include irritating vapors and toxic gases (e.g., CO, CO ₂ , and SO ₂). Liberation of gas (e.g., oxygen) may result in dangerous pressures. Decomposed by moisture to form oxygen and ozone. Burning may produce nitrogen oxides, sulfur oxides, and sulfuric acid.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat and direct sunlight. Moisture, combustible material, heat, flame, ignition sources, shock, friction, powdered metals, phosphorus, hydrides, organic matter, halogens, acids, alkalis, and incompatibles.
10.5	Incompatible Substances:	Reducing agents, organics, some acids, flammable materials. Do not use metallic bowls or utensils when mixing this product. Avoid contamination with moisture, combustible or organic materials (e.g., sawdust, damp paper towels).
		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:	Moderate irritation to skin near affected areas. This product causes serious eye irritation.
11.4	Chronic Toxicity:	The material may aggravate any pre-existing skin condition (e.g., dermatitis). This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.
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.
11.8	Biological Exposure Indices:	NE
11.9	Physician Recommendations:	Treat symptomatically.
		12. ECOLOGICAL INFORMATION
12.1	Environmental Stability:	The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are available, but are not presented in this Safety Data Sheet.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	This product was not tested on animals. Specific aquatic test data is available for the some of the components of this product, but are not presented in this Safety Data Sheet.
		13. DISPOSAL CONSIDERATIONS
13.1	Waste Disposal:	Waste disposal must be in accordance with appropriate Federal, state, and local regulations.
13.2	Special Considerations:	U.S. EPA Waste Number: D001 (characteristic - ignitable)
-		14. TRANSPORTATION INFORMATION
desc	riptive information may b	mber, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional e required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.
14.1	49 CFR (GND):	UN1479, OXIDIZING SOLID, N.O.S. (potassium persulfate, sodium persulfate), 5.1, III (LTD QTY, IP VOL ≤ 5.0 kg); or CONSUMER COMMODITY, ORM-D – until 01/01/2021
14.2	IATA (AIR):	UN1479, OXIDIZING SOLID, N.O.S. (potassium persulfate, sodium persulfate), 5.1, III (LTD QTY, IP VOL ≤ 1.0 kg)
14.3	IMDG (OCN):	UN1479, OXIDIZING SOLID, N.O.S. (potassium persulfate, sodium persulfate), 5.1, III (LTD QTY, IP VOL ≤ 5.0 kg)
14.4	TDGR (Canadian GND):	UN1479, OXIDIZING SOLID, N.O.S. (potassium persulfate, sodium persulfate), 5.1, III (LTD QTY, IP VOL ≤ 5.0 kg); or "LIMITED QUANTITY" or "QUANTITÉ LIMITÉE" or "LTD QTY" or "QUANT LTÉE" (IP VOL ≤ 5.0 kg) UN1479, OXIDIZING SOLID, N.O.S. (potassium persulfate, sodium persulfate), 5.1, III (LTD QTY, IP VOL ≤ 5.0 kg)
14.5	ADR/RID (EU):	UN1479, OXIDIZING SOLID, N.O.S. (potassium persulfate, sodium persulfate), 5.1, III (LTD QTY, IP VOL ≤ 5.0 kg)
	SCT (MEXICO):	UN1479, SOLIDO COMBURENTE, N.E.P. (persulfato de potasio, persulfato de sodio), 5.1, III
14.6	ADGR (AUS):	(CANTIDAD LIMITADA, IP VOL ≤ 5.0 kg)



Page 5 of 7

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

SDS Revision: 1.2

		15. REGULATORY INFORMATION								
15.1	Requirements:									
15.2	• • • • • • • • • • • • • • • • • • •									
15.3										
15.4	CERCLA Reportable Quantity:	NA								
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 C, D2B (Oxidizing Agent, Other Toxic Effects)								
15.7	State Regulatory Information:	Potassium Persulfate is found on the following state criteria lists: Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), and Pennsylvania Right-to-Know List (PA). Sodium Persulfate is found on the following state criteria lists: NJ and PA. 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 (MA), 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:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: <u>Potassium Persulfate</u> : Oxidizer, Harmful (O, Xn). <u>Risk Phrases</u> (R): 8-22-36/37/38-42/43 – Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. <u>Safety Phrases</u> (S): (2)-3-7-17- 22-24-26-37-51 - Keep out of the reach of children. Keep in a cool place. Keep container tightly closed. Keep away from combustible material. Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. Use only in well-ventilated areas. <u>Sodium Persulfate</u> : Oxidizer, Harmful (O, Xn). <u>Risk Phrases</u> (R): 8-22-36/37/38-42/43 – Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. <u>Safety Phrases</u> (S): (2)-3-7-17- 22-24-26-37-51 - Keep out of the reach of children. Keep in a cool place. Keep container tightly closed. Keep away from combustible material. Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. Use only in well-ventilated areas.								



Page 6 of 7

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

SDS Revision: 1.2

		16. OTHER INFORMATION							
16.1									
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.							
16.3	Disclaimer:	regulations must be reviewed for applicability to this product. To the best of contained herein is reliable and accurate as of this date; however, accuracy warranties of any type, either expressed or implied, are provided. The informatic	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 & Hair Systems' 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.						
16.4	Prepared for:	Hair Systems, Inc. 30 Park Avenue Englishtown, NJ 07726 USA Tel: +1 (732) 446-2202 Fax: +1 (732) 446-7968 http://www.hairsystemsinc.com							
16.5	Prepared by:	Fax + I(3 0 3/0-3/00)	Mate erous Goods ing & Consulting						



Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & EU Standards

SDS Revision: 1.2

SDS Revision Date: 1/1/2018

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

PERSONAL PROTECTION RATINGS:

UEL

Α			Ģ							
в			H	0		· 古	8			
С			I	0						
D	B		J			Î				
Е	0		ĸ			Ŕ				
F	0) ×			ervisor or directions	r SOPs foi s.			
Sa	fety Glass	es Splash Goggle		ace Shield a active Eyew		Glove	es			
	Boots	Synthetic Apro		Protective Clothing & Full Suit						
						Î				
	ace Respi	Mask Respirato	or	Full Face Respirator	A	irline Hoo or SCI				
ОТН		IDARD ABBREVIATIO	NS:							
	ML	Maximum Limit								
	mg/m3	milligrams per cubic met	er							
	NA	Not Available								
	ND	Not Determined								
	NE NF	Not Established Not Found								
<u> </u>		Not Found No Results								
	ppm									
<u> </u>	SCBA Self-Contained Breathing Apparatus									
ΝΔΤ		RE PROTECTION AS								
		TY LIMITS IN AIR:								
Au	toignition	Minimum temperature r source of ignition	equired to	initiate com	bustion in	air with	no other			
	LEL	Lower Explosive Limit - explode or ignite in the p				y volume,	that will			

Upper Explosive Limit - highest percent of vapor in air, by volume, that will

explode or ignite in the presence of an ignition source

HAZARD	RATING	S:									
	0 Minim	al Hazard									
	1 Slight	Hazard									
	2 Mode	rate Haza	rd								
	3 Sever	e Hazard									
	4 Extre	me Hazar	ł								
AC	D Acidio	;									
AL	K Alkali	ne					F	LAM	MABILITY		
CO	R Corro	sive								<u> </u>	REACTIVITY
	W Use N	lo Water							X	1	1
C	X Oxidiz	zer								• /	X
TREFO	IL Radio	active						1	1	~ 2	
TOXICO	LOGICAL	INFOR	MATI	ON:					₹ .		• /
		LD ₅₀ Le	thal D	ose (s	olids	& liqu	ids) w	/	$\mathbf{\mathbf{x}}$	₩>	
		LC ₅₀ Le	thal co	oncent	ration	(gase	es) wh	EAL	тн 🔪	X	CDE CIAL
		ppm C	oncent	ration	expre	ssed	in parl				SPECIAL PRECAUTIONS
		TD _{lo} Lo	west o	dose to	caus	e a s	ymptom	1			RECADITIONS
	1	CLo Lo	west o	concen	tratio	n to ca	ause a	sym	ptom		
	,, LD _{lo} , & L		west o	dose (o	or con	centra	ation) to	cau	ise lethal	or toxic eff	ects
TC, T	C _o , LC _{io} , 8										
	I							h on	Cancer		
				Toxico		-					
	RT						of Cherr	ical	Substan	ces	
				entratio							
				thresho							
	K _{ow} or log)il/Wa	ter Di	stributio	on			
REGULA	TORY IN	FORMA	TION	:							
WHM	IS Cana	dian Work	place I	Hazaro	lous N	/lateri	al Infori	matio	on Syster	n	
DC	DT U.S. [Departmei	nt of Tr	anspo	rtatior	ı					
Т	C Trans	port Cana	da								
EP	VA U.S. E	Environme	ntal Pi	rotectio	on Age	ency					
DS	SL Cana	dian Dom	estic S	ubstar	ice Lis	st					
NOHS	C Nation	nal Occup	ational	Healt	h and	Safet	y Comr	niss	ion (Aust	ralia)	
NDS	SL Cana	dian Non-	Domes	stic Sul	ostano	ce Lis	t				
PS	SL Cana	dian Priori	ty Sub	stance	s List						
TSC	A U.S. 1	Foxic Sub	stance	Contro	ol Act						
E	EU Europ	ean Unio	ion (European Union Directive 67/548/EEC)								
WG	K Wass	ergefährd	ungskl	assen	(Gern	nan W	/ater Ha	azar	d Class)		
HMIS-	III Nation	nal Paint 8	k Coati	ings As	ssocia	ition F	Hazardo	ous N	/laterials	Identificatio	on System
WORKPI	LACE HA	ZARDO	US M	ATEF	RIAL	S IDE	ENTIF	CA	TION (V	VHMIS) S	YSTEM:
0	۲		0	(Ċ	Ð	(B		Ŕ
Class A	Class B	Clas	s C	Class D1		Cla	ss D2	Class D3		Class E	Class F
Compressed	Flammabl	e Oxidi	zing	Tox	ic	Irrit	Irritation Infectious		ectious	Corrosive	Reactive
EC (67/5	48/EEC)	INFORM	ATIO	N:							
		×	*	¥	2	ł		a S		×	×
С	E	F		N			0	т		Xi	Xn
Corrosive	Explosive	e Flamn	nable	Harn	nful	Oxi	dizing		Toxic	Irritant	Harmful
GHS01	S (1272/2	008/EC)	~	IS04	k	: 305	GHS	06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Press	surized	Corre	osive	e Toxic Harmfi Irritatir				Environment