

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	OYA® DEMI PERMANENT COLOR
1.2	Chemical Name:	NA
1.3	Synonyms:	NA
1.4	Trade Names:	OYA® Demi Permanent Color
1.5	Product Uses & Restrictions:	Professional or Cosmetic Use Only
1.6	Distributor's Name:	Helias LLC
1.7	Distributor's Address:	17030 Ventura Blvd, Suite 200, Los Angeles, CA 91316 USA
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887
1.9	Business Phone / Fax:	+1 (310) 437-4480 / +1 (310) 437-4481

2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	Prepared in accordance with UN Globally Harmonized standards. Intended to comply with OSHA 29 CFR 1910.1200, Canadian WHMIS and Australian Work Health and Safety standards. This product is classified as a hazardous substance BUT NOT as dangerous goods according to the classification criteria of WHSR and ADG Code (Australia). WARNING! CAUSES SERIOUS EYE IRRITATION. Classification: Eye Irrit. 2A
2.2	Label Elements:	<p><u>Hazard Statements</u> (H): H319 – Causes serious eye irritation.</p> <p><u>Precautionary Statements</u> (P): P264 – Wash thoroughly after handling. P280 – Wear protective gloves and eye protection. P302+P352 – IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 – IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. P321 – Specific treatment see section 4 of this SDS. P332+P313 – If skin irritation occurs: Get medical advice/attention. P362+P364 – Take off contaminated clothing and wash it before reuse.</p>
2.3	Other Warnings:	KEEP OUT OF REACH OF CHILDREN.



3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
AQUA (WATER/EAU)	7732-18-5	ZC0110000	231-791-2	40-100	NA	NA	NF	NF	NF	NA	NA	NA		
CETEARYL ALCOHOL	8005-44-5	NA	267-008-6	0.1-20	NA	NA	NF	NF	NF	NA	NA	NA		
GLYCOL DISTEARATE	627-83-8	NA	211-014-3	0.1-20	NA	NA	NF	NF	NF	NA	NA	NA		
PROPYLENE GLYCOL	57-55-6	TY200000	200-338-0	0.1-20	NA	NA	150	474	NF	NA	NA	NA		
	Skin Irrit. 3; Eye Irrit. 2; H316, H320													
OLEIC ACID	112-80-1	RG2275000	204-007-1	0.1-20	NA	NA	NF	NF	NF	NA	NA	NA		
POLYSORBATE 60	9005-67-8	WG2934000	NA	0.1-20	NA	NA	NF	NF	NF	NA	NA	NA		
ETHANOLAMINE	141-43-5	KJ5775000	205-483-3	0.1-20	3	6	3	NF	NF	3	6	30		
	Acute Tox. 4 *: Skin Corr. 1B; H332, H312, H302, H314													
OLETH-10	9004-98-2	NA	NA	0.1-20	NA	NA	NF	NF	NF	NA	NA	NA		
DIMETHICONE	63148-62-9	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
PALMITAMIDOPROPYLTRIMONIUM CHLORIDE	51277-96-4	NA	257-104-6	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
BEHENTRIMONIUM CHLORIDE	17301-53-0	NA	241-237-0	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
PEG-75 LANOLIN	67648-38-4	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
CAMELLIA SINENSIS (GREEN TEA) LEAF EXTRACT	84650-60-2	NA	283-519-7	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
MACROCYSTIS PYRIFERA (KELP) EXTRACT	347174-92-9	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM LAURETH SULFATE	9004-82-4	WB7499000	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
	Acute Tox. 4, Eye Irrit. 2; H302, H319													
CETETH-20	9004-95-9	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
PEG-100 STEARATE	9004-99-3	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		


3. COMPOSITION & INGREDIENT INFORMATION – cont'd

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
HYDROXYETHYLCELLULOSE	9004-62-0	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
PEG/PPG-18/18 DIMETHICONE	NA	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM SULFITE	7757-83-7	NA	231-824-4	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
ERYTHORBIC ACID	89-65-6	NA	201-928-0	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
DISODIUM EDTA	6381-92-6	AH4410000	205-358-3	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM HYDROXIDE	1310-73-2	WB4900000	215-185-5	0.1-10	2	NA	2	NF	NF	2	NA	10		
	Eye Irrit. 2B; H320													
FRAGRANCE (PARFUM)	NA	NA	NA	0.1-10	NA	NA	NF	NF	NF	NA	NA	NA		
MAY ALSO CONTAIN:														
1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE	155601-30-2	NA	429-300-3	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
2,4-DIAMINOPHENOXYETHANOL HCL	70643-19-5	NA	266-357-1	0.0-1.0	NA	NA	NF	NF	NA	NF	NF	NF		
2-AMINO-3-HYDROXYPYRIDINE	16867-03-1	NA	240-886-8	0.0-1.0	NA	NA	NF	NF	NA	NF	NF	NF		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335													
2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE	83763-48-8	NA	280-734-8	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
2-AMINO-6-CHLORO-4-NITROPHENOL	6358-09-4	NA	228-762-1	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
2-METHYL-5-HYDROXYETHYLAMINOPHENOL	55302-96-0	NA	259-583-7	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
2-METHYLRESORCINOL	608-25-3	VH2009500	210-155-8	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
4-AMINO-2-HYDROXYTOLUENE	2835-95-2	SJ6090000	220-618-6	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
4-AMINO-3-NITROPHENOL	610-81-1	NA	210-236-8	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
4-AMINO-M-CRESOL	2835-99-6	GO6826000	220-621-2	0.0-1.0	NA	NA	NF	NF	NA	NF	NF	NF		
	Acute Tox. 4; Skin Irrit. 2 Eye Irrit. 2A; STOT SE 3; H302, H315, H319, H335													
4-CHLORORESORCINOL	95-88-5	VH0450000	202-462-1	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302, H312, H332, H331, H319, H335													
4-HYDROXYPROPYLAMINO-3-NITROPHENOL	92952-81-3	NA	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
5-AMINO-6-CHLORO-O-CRESOL	84540-50-1	NA	283-144-9	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
DISPERSE VIOLET 1	128-95-0	NA	204-922-6	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
HC BLUE 2	526194-45-6	NA	NA	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
HC RED 3	2871-01-4	NA	220-701-7	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
HC YELLOW 2	4926-55-0	NA	2252-555-8	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
m-AMINOPHENOL	591-27-5	NA	209-711-2	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
RESORCINOL	108-46-3	VG9625000	203-585-2	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		
TOLUENE-2,5-DIAMINE SULFATE	615-50-9	NA	210-431-8	0.0-1.0	NA	NA	NF	NF	NF	NA	NA	NA		

4. FIRST AID MEASURES

4.1	First Aid:	<p>Ingestion: If ingested, DO NOT INDUCE VOMITING. Seek immediate medical attention. Contact the nearest Poison Control Center or local emergency telephone number for assistance and instructions. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.</p> <p>Eyes: If product gets in the eyes, remove contact lenses (if used), 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 medical attention.</p> <p>Skin: Discontinue use of the product and wash with soap and water. If discomfort persists, seek medical attention.</p> <p>Inhalation: Remove victim to fresh air at once. If not breathing, give artificial respiration and contact a physician or local emergency services immediately.</p>															
4.2	Effects of Exposure:	<p>Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea.</p> <p>Eyes: Moderately irritating to the eyes - may cause redness, itching, irritation and watering.</p> <p>Skin: This product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</p> <p>Inhalation: None expected.</p>															
4.3	Symptoms of Overexposure:	Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product may cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.															
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas.															
4.5	Chronic Health Effects:	No harmful or chronic health effects are expected to occur from a single accidental ingestion.															
4.6	Target Organs:	Eyes, Skin															
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin).															
		<table> <tr> <td colspan="2">HEALTH</td><td>1</td></tr> <tr> <td colspan="2">FLAMMABILITY</td><td>0</td></tr> <tr> <td colspan="2">PHYSICAL HAZARDS</td><td>1</td></tr> <tr> <td colspan="2">PROTECTIVE EQUIPMENT</td><td>B</td></tr> <tr> <td>EYES</td><td>SKIN</td><td></td></tr> </table>	HEALTH		1	FLAMMABILITY		0	PHYSICAL HAZARDS		1	PROTECTIVE EQUIPMENT		B	EYES	SKIN	
HEALTH		1															
FLAMMABILITY		0															
PHYSICAL HAZARDS		1															
PROTECTIVE EQUIPMENT		B															
EYES	SKIN																

5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	This product is not flammable. However, if involved in a fire, this product may decompose at high temperatures to form toxic gases (e.g., CO, CO ₂ , NO _x).	
5.2	Extinguishing Methods:	Water Spray, Foam, CO ₂ , Dry Chemical, Halon (if permitted)	
5.3	Firefighting Procedures:	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. Fight fire upwind. 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 combustion or decomposition products and oxygen deficiencies.	

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).</p> <p>For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.</p> <p>For large spills (e.g., ≥ 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves). Maximize ventilation (open doors and windows). Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.</p>
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:	Do not eat, drink, or smoke while handling this product. Wash thoroughly after handling. Wash residues with soap and warm water.
7.2	Storage & Handling:	Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation, fans). Keep away from excessive heat and open flames. Avoid temperatures above 120 °F. Keep away from incompatible substances. Protect containers from physical damage.
7.3	Special Precautions:	Spilled material may present a fire and slipping hazard if left unattended. Clean all spills promptly.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1	Exposure Limits: ppm (mg/m ³)	CHEMICAL NAME(S)	ACGIH		NOHSC			OSHA			OTHER
			TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH	
		PROPYLENE GLYCOL	NA	NA	150	474	NF	NA	NA	NA	
		ETHANOLAMINE	3	6	3	NF	NF	3	6	30	
		SODIUM HYDROXIDE	2	NA	2	NF	NF	2	NA	10	
8.2	Ventilation & Engineering Controls:	When working with large quantities of product, provide adequate ventilation (e.g., local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.									
8.3	Respiratory Protection:	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, applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.									
8.4	Eye Protection:	AVOID EYE CONTACT. Protective eyewear recommended. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard as soft lenses may absorb and concentrate irritants.									
8.5	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex, rubber or nitrile gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states.									
8.6	Body Protection:	No special body protection is required under typical circumstances of use and handling. Apron recommended when handling large quantities (e.g., ≥ 1 gallon). Eye wash stations and deluge showers should be available.									

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Dye, various colors
9.2	Odor:	Perfumery odor
9.3	Odor Threshold:	NA
9.4	pH:	9.5-10.8
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	> 100 °C (> 212 °F)
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:	0.99 ± 0.02
9.12	Solubility:	Slightly soluble in 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:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	This product is stable.
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO ₂) , nitrogen (NO _x) and sulfur (SO ₂).
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks and high heat, direct sunlight.
10.5	Incompatible Substances:	Oxidizers, strong acids, alkalis.

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 toxicological data. There are toxicology data for the components of this product, which are found in the scientific literature, but are 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:	This product does not contain any chemicals known to the State of California to cause cancer or other reproductive harm. For more information, please visit www.P65Warnings.ca.gov .		
11.6	Reproductive Toxicity:	This product is not reported to cause reproductive effects 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:	See Section 4.3		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		

12. ECOLOGICAL INFORMATION

12.1	Environmental Stability:	There is no specific data available for this product.
12.2	Effects on Plants & Animals:	There is no specific data available for this product.
12.3	Effects on Aquatic Life:	There is no specific data available for this product.

13. DISPOSAL CONSIDERATIONS


13.1	Waste Disposal:	Dispose of in accordance with federal, state and local regulations.
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
14.3	IMDG (OCN):	NOT REGULATED
14.4	TDGR (CANADA):	NOT REGULATED
14.5	ADR/RID (EU):	NOT REGULATED
14.6	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED

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):	NA	
15.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics). 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 SDS 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 D2B (Other Toxic Effects)	

15. REGULATORY INFORMATION – cont'd

15.7	State Regulatory Information:	<p><u>Propylene Glycol</u> is found on the following state criteria list: MN, PA.</p> <p><u>Ethanolamine</u> is found on the following state criteria lists: FL, MA, MN, PA and WA.</p> <p><u>Resorcinol</u> is found on the following state criteria lists: FL; MA; MN; PA; WA and WI.</p> <p>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).</p>
15.8	Other Requirements:	<p>The components in this product are found in the following inventory lines: Australia - AICS, China - IECSC, Europe - ELINCS / EINEC, Japan - ENCS; Korea - KECI; New Zealand - NZIoC; Philippines - PICCS; USA -TSCA.</p>

16. OTHER INFORMATION

16.1	Other Information:	<p>WARNING! CAUSES SERIOUS EYE IRRITATION.</p> <p>Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. 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.</p> <p>KEEP OUT OF REACH OF CHILDREN</p>
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	<p>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 & Helias 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.</p>
16.4	Prepared for:	<p>Helias LLC 17030 Ventura Blvd, Suite 200 Los Angeles, CA 91316 USA Tel: +1 (310) 437-4480 Fax: +1 (310) 437-4481 www.heliascosmetics.com</p>
16.5	Prepared by:	<p>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</p>



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.
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HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

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

HEALTH
FLAMMABILITY
PHYSICAL HAZARDS
PERSONAL PROTECTION

PERSONAL PROTECTION RATINGS:

A	
B	
C	
D	
E	
F	

G	
H	
I	
J	
K	
X	Consult your supervisor or SOPs for special handling directions.

Safety Glasses	Splash Goggles	Face Shield & Protective Eyewear	Gloves
Boots	Protective 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:

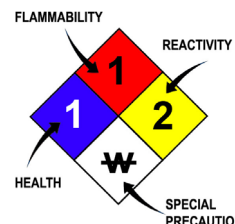
Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:	
Autoignition 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, & LD₀₁ or TC, TC₀₁, LC₀₁, & LC₀₁	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
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:

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:

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