


SAFETY DATA SHEET

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.2 SDS Revision Date: 11/2/2015

1. PRODUCT & COMPANY IDENTIFICATION

1.1	Product Name:	L'ANZA HEALING HAIRCOLOR VIBES
1.2	Chemical Name:	NA
1.3	Synonyms:	NA
1.4	Trade Names:	L'Anza Healing Haircolor VIBES
1.5	Product Uses & Restrictions:	Professional or Cosmetic Use Only
1.6	Distributor's Name:	C-CARE, LLC
1.7	Distributor's Address:	979 Corporate Boulevard, Linthicum Heights, MD 21090 USA
1.8	Emergency Phone:	CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN XXXXX)
1.9	Business Phone / Fax:	+1 (410) 850-0035

2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	<p>This product is classified as a HAZARDOUS SUBSTANCE but NOT as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). WARNING! CAUSES MILD SKIN IRRITATION. CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED. <u>Classification:</u> Skin Irrit. 3; Eye Irrit. 2B; Acute Tox. Oral 4 <u>Hazard Statements (H):</u> H316 – Causes mild skin irritation. H320 – Causes eye irritation. H302 – Harmful if swallowed. <u>Precautionary Statements (P):</u> P264 – Wash hands and exposed skin areas with soap and warm water thoroughly after handling. P270 – Do not eat, drink or smoke while using this product. P280 – Wear protective gloves and eye/face protection. P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305+P351+P338 – IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention. P332+P313 – If skin irritation occurs: get medical advice/attention. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p>	
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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	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
WATER / AQUA/ EAU	7732-18-5	ZC0110000	231-791-2	NA	NA	NA	NF	NF	NF	NA	NA	NA		
POLYQUATERNIUM-37	26161-33-1	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA		
PARFUM LIQUIDUM (MINERAL OIL)	8012-95-1	PY8030000	232-384-2	NA	5	10	NF	5	NF	5	10	2500	MIST	
					Asp. Tox. 1; H304									
ETHOXYDIGLYCOL	111-90-0	KK8750000	203-919-7	NA	25	NA	NF	NF	NF	25	NA	NA		
PHENOXYETHANOL	122-99-6	KM0350000	204-589-7	NA	NA	NA	NF	NF	NF	NA	NA	NA		
POLYSORBATE 20	9005-64-5	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA		
PPG-1 TRIDECETH 6	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA		
PROPYLENE GLYCOL	57-55-6	TY2000000	200-338-0	NA	NA	NA	150	474	NF	NA	NA	NA		
					Skin Irrit. 3; Eye Irrit. 2; H316; H320									
SODIUM COCOAMPHOPROPIONATE	93820-52-1	Na	298-632-7	NA	NA	NA	NF	NF	NF	NA	NA	NA		
MAGNESIUM PCA	5819-47-6	NA	227-392-8	NA	NA	NA	NF	NF	NF	NA	NA	NA		
MANGANESE PCA	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA		
ZINC PCA	68107-75-7	NA	268-475-9	NA	NA	NA	NF	NF	NF	NA	NA	NA		
SODIUM PCA	28874-51-3	NA	249-277-1	NA	NA	NA	NF	NF	NF	NA	NA	NA		
KERATIN AMINO ACIDS	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA		

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3. COMPOSITION & INGREDIENT INFORMATION – cont'd

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)									OTHER
					ACGIH		NOHSC			OSHA				
					ppm		ppm			ppm				
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	PEL	STEL	IDLH		
MAY ALSO CONTAIN:														
CI 42520 (BASIC VIOLET 2)	3248-91-7	NA	221-831-7	NA	NA	NA	NF	NF	NF	NA	NA	NA		
HC BLUE 15	74578-10-2	NA	277-929-5	NA	NA	NA	NF	NF	NF	NA	NA	NA		
BASIC RED 51	77061-58-6	NA	278-601-4	NA	NA	NA	NF	NF	NF	NA	NA	NA		
BASIC ORANGE 31	97404-02-9	NA	306-764-4	NA	NA	NA	NF	NF	NF	NA	NA	NA		
BASIC YELLOW 87	68259-00-7	NA	269-503-2	NA	NA	NA	NF	NF	NF	NA	NA	NA		
CALENDULA OFFICINALIS FLOWER EXTRACT	84776-23-8	NA	283-949-5	NA	NA	NA	NF	NF	NF	NA	NA	NA		
CENTAUREA CYANUS FLOWER EXTRACT	84012-18-0	NA	281-664-0	NA	NA	NA	NF	NF	NF	NA	NA	NA		
HIBISCUS SABDARIFFA FLOWER EXTRACT	84775-96-2	NA	283-920-7	NA	NA	NA	NF	NF	NF	NA	NA	NA		
PAPHIOPEDILUM MAUDIAE (ORCHID) FLOWER EXTRACT	NA	NA	NA	NA	NA	NA	NF	NF	NF	NA	NA	NA		
GARDENIA FLORIDA FLOWER EXTRACT	92457-01-7	NA	296-280-9	NA	NA	NA	NF	NF	NF	NA	NA	NA		
ROSA CENTIFOLIA FLOWER EXTRACT	84604-12-6	NA	283-289-8	NA	NA	NA	NF	NF	NF	NA	NA	NA		
ECHINACEA PURPUREA EXTRACT	90028-20-9	NA	289-808-4	NA	NA	NA	NF	NF	NF	NA	NA	NA		

4. FIRST AID MEASURES


4.1	First Aid:	<p>Ingestion: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.</p> <p>Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.</p> <p>Skin: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.</p> <p>Inhalation: Remove victim to fresh air at once.</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. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p>Skin: May be irritating to skin. The 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:	<p>Ingestion: Nausea, intestinal discomfort, vomiting and/or diarrhea.</p> <p>Eyes: Overexposure in eyes may cause redness, itching and watering.</p> <p>Skin: Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</p>											
4.4	Acute Health Effects:	Moderate irritation to eyes. Symptoms of overexposure may include redness, itching, stinging, irritation and watering. Moderate irritation to 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, Respiratory System											
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, and respiratory system).	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0000FF; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="background-color: #FFA500; color: white;">PHYSICAL HAZARDS</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #000000; color: white;">PROTECTIVE EQUIPMENT</td> <td style="text-align: center;">B</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	PHYSICAL HAZARDS	1	PROTECTIVE EQUIPMENT	B	EYES	SKIN
HEALTH	1												
FLAMMABILITY	0												
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5. FIREFIGHTING MEASURES

5.1	Fire & Explosion Hazards:	This product is not flammable.	
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized.	
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 personal. 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.</p> <p>For <u>small spills</u> (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.</p> <p>For <u>large spills</u> (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g., sand or earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. 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. Avoid contact with flammable or combustible materials. Avoid contamination from any source, including metals, dust and organic materials. Keep bulk covered. Wash unintentional 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 slipping hazard if left unattended. Clean all spills promptly.

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	
		PARFUM LIQUIDUM (MINERAL OIL)	5	10	NF	5	NF	5	10	2500	MIST
		ETHOXYDIGLYCOL	25	NA	NF	NF	NF	25	NA	NA	
		PROPYLENE GLYCOL	NA	NA	150	474	NF	NA	NA	NA	ALLERGEN
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:	No special respiratory protection is required under typical circumstances of use or handling. 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:	Avoid eye contact. None required under normal conditions of use. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)) safety glasses with side shields should be used.									
8.5	Hand Protection:	Required under normal conditions of use to prevent staining and keep exposure level to a minimum. Use latex or PVC gloves. When handling large quantities (e.g., ≥ 1 gallon (3.8 L)), wear rubber or impervious plastic gloves must be worn.									
8.6	Body Protection:	No apron required when handling small quantities. Lab coat or apron should be worn to protect skin and clothing. When handling large quantities (e.g., ≥ 1 gallon), eye wash stations and deluge showers should be available. Upon completion of work activities involving large quantities of this product, wash any exposed areas thoroughly with soap and water.									

9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance:	Paste, color varies
9.2	Odor:	Mild floral odor
9.3	Odor Threshold:	NA
9.4	pH:	3.0-4.0
9.5	Melting Point/Freezing Point:	NA

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9. PHYSICAL & CHEMICAL PROPERTIES – cont'd

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:	0.97-1.0
9.12	Solubility:	Partial solubility in water
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	80,000-200,000 cPs
9.17	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	Stable under normal conditions; unstable with heat or contamination.
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, high heat, incompatible substances and direct sunlight.
10.5	Incompatible Substances:	Avoid extreme heat and ignition sources. Store away from oxidizers.

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 and is presented below:		
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:	See Section 4.3.		
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 as follows:
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:	Products covered by this MSDS, in their original form, when disposed as waste, are considered non-hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. 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 (Canadian GND):	NOT REGULATED
14.5	ADR/RID (EU):	NOT REGULATED
14.6	SCT (MEXICO):	NOT REGULATED
14.7	ADGR (AUS):	NOT REGULATED

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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:	This product is not subject to the reporting requirements of SARA Title III, Section 302.
15.3	TSCA Inventory Status:	All components of this product are listed in the TSCA Inventory or are exempt.
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/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS 
15.7	State Regulatory Information:	No 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:	The primary components of this product are listed in Annex I of EU Directive 67/548/EEC: Irritant (Xi). Risk Phrases (R): 36 – Irritating to eyes. Safety Phrases (S): 2-26 – Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 

16. OTHER INFORMATION

16.1	Other Information:	<p>WARNING! CAUSES MILD SKIN IRRITATION. CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED. For external use only. Use only as directed. Discontinue use immediately if irritation develops. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Do not eat, drink or smoke while using this product. Wear protective gloves and eye/face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation occurs: get medical advice/attention. Store locked up. KEEP LOCKED UP AND OUT OF REACH OF CHILDREN.</p>
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 & C-Care, LLC'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:	<p>C-Care, LLC 979 Corporate Blvd Linthicum Heights, MD USA Tel: +1 (410) 850-0035 http://www.c-care-company.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> <div style="text-align: right;">  </div>

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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	Chemical Abstract Service Number
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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.
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HMIS-III HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	<table border="1"> <tr><td>HEALTH</td></tr> <tr><td>FLAMMABILITY</td></tr> <tr><td>PHYSICAL HAZARDS</td></tr> <tr><td>PERSONAL PROTECTION</td></tr> </table>	HEALTH	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
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

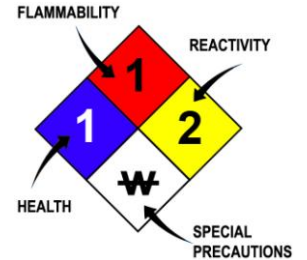
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

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
TD₁₀	Lowest dose to cause a symptom
TCLo	Lowest concentration to cause a symptom
TD₁₀, LD₁₀, & LD₀₁ or TC, TC₀₁, LC₁₀, & 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
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