

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards



MSDS Revision: 4.0

MSDS Revision Date: 03/21/2013

1. PRODUCT IDENTIFICATION

1.1	Product Name: BRAZILIAN BLOWOUT AÇAÍ PROFESSIONAL SMOOTHING SOLUTION
1.2	Chemical Name: NA
1.3	Synonyms: NA
1.4	Trade Names: Brazilian Blowout Açai Professional Smoothing Solution
1.5	Product Use: PROFESSIONAL USE ONLY
1.6	Distributor's Name: Brazilian Blowout
1.7	Distributor's Address: 6855 Tujunga Ave., North Hollywood, CA USA 91605
1.8	Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-3887
1.9	Business Phone: +1 (818) 232-8775 / +1 (877) 779-7706

2. HAZARD IDENTIFICATION

2.1	Hazard Identification: 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! MAY CAUSE AN ALLERGIC SKIN REACTION. PRODUCT RELEASES FORMALDEHYDE (GAS), A SUSPECTED CARCINOGEN. Hazard Statements (H): H317 – May cause an allergic skin reaction. Precautionary Statements (P): P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P281 – Use personal protective equipment as required. P302+P352 – IF ON SKIN: Wash with soap and water. P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 – If skin irritation or a rash occurs: Get medical advice/attention. P321 – Specific treatment (see section 4.1 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P405 – Store locked up. P501 – Dispose of contents/container to licensed, authorized treatment, storage and disposal facility (see Section 13.1 of this Safety Data Sheet).	 					
2.2	Routes of Entry: <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Inhalation:</td> <td>YES</td> <td>Absorption:</td> <td>YES</td> <td>Ingestion:</td> <td>YES</td> </tr> </table>	Inhalation:	YES	Absorption:	YES	Ingestion:	YES
Inhalation:	YES	Absorption:	YES	Ingestion:	YES		
2.3	Effects of Exposure: INGESTION: If product is swallowed, may cause nausea, vomiting and/or diarrhea. EYES: Direct contact may cause mild irritation. Symptoms of overexposure may include redness, itching, irritation and watering. SKIN: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. INHALATION: May cause irritation and sensitization of the respiratory tract, especially if proper ventilation is not used or otherwise used improperly, e.g. excessive amounts of product are applied. When exposed to high heat (e.g., flat iron), may cause sore throat, coughing, and shortness of breath.						
2.4	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 an allergic skin reaction (e.g., rashes, welts, dermatitis).						
2.5	Acute Health Effects: Moderate irritation to eyes. Moderate irritation to skin near affected areas.						
2.6	Chronic Health Effects: No harmful or chronic health effects are expected to occur from a single accidental ingestion. Frequent or prolonged exposure to product may cause hypersensitivity leading to contact dermatitis. Repeated or prolonged skin contact with product may cause an allergic reaction. Proper ventilation must be used to ensure the TLVs and PELs are not exceeded. Avoid prolonged contact to concentrated vapors. Overexposure to product may aggravate pre-existing pulmonary conditions.						
2.7	Target Organs: Respiratory System, Skin, Eyes						

NA = Not Available; ND = Not Determined; NE = Not Established; NF = Not Found; C = Ceiling Limit. See Section 16 for Additional Definitions of Terms Used.
 NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-2010 format.

3. COMPOSITION & INGREDIENT INFORMATION

CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	EXPOSURE LIMITS IN AIR (mg/m ³)								
					ACGIH		NOHSC			OSHA			OTHER
					ppm		ppm			ppm			
					TLV	STEL	ES-TWA	ES-STEL	ES-PEAK	TLV	STEL	IDLH	
AQUA (WATER)	7732-18-5	ZC0110000	231-791-2	60-100	NA	NA	NF	NF	NF	NA	NA	NA	
METHYLENE GLYCOL	463-57-0	NA	207-339-5	3-7	0.3	NA	0.016	2.0	NF	0.75	2.0	20.0	NIOSH
CYCLOPENTASILOXANE	541-02-6	GY5945200	208-764-9	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
CETEARYL ALCOHOL	8005-44-5	NA	267-008-6	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
BEHENTRIMONIUM METHOSULFATE	81646-13-1	NA	279-791-1	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
FRAGRANCE (PARFUM)	NA	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
EUTERPE OLERACEA (AÇAÍ PALM) FRUIT EXTRACT	NA	NA	NA	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
GLYCERIN	56-81-5	MA8050000	200-289-5	0.1-1	(10) *	NA	NF	NF	NF	(5) *	NA	NA	* MIST
BIXA ORELLANA (ANNATTO) SEED EXTRACT	8015-67-6	NA	NA	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
MYRCIARIA DUBIA (CAMU CAMU) FRUIT EXTRACT	NA	NA	NA	0.1-1	NA	NA	NF	NF	NF	NA	NA	NA	
LIMONENE	5989-27-5	GW6360000	227-813-5	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
LINALOOL	78-70-6	RG5775000	201-134-4	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
HEXYL CINNAMAL	101-86-0	GD6560000	202-983-3	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
BUTYLPHENYL METHYLPROPIONAL	80-54-6	MW48950000	201-289-8	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
BENZYL BENZOATE	120-51-4	DG4200000	204-402-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	ALLERGEN
CI 15985 (YELLOW 6)	2783-94-0	ZF6680000	220-491-7	NA	NA	NA	NF	NF	NF	NA	NA	NA	
CI 19140 (YELLOW 5)	12225-21-7	NA	235-428-9	NA	NA	NA	NF	NF	NF	NA	NA	NA	

4. FIRST AID MEASURES

4.1	<p>First Aid:</p> <p>INGESTION: DO NOT INDUCE VOMITING. Contact ChemTrec at 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>EYES: If product gets in the eyes, 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: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned.</p> <p>INHALATION: Should overexposure occur or victim shows signs of immediate distress, remove victim to fresh air at once. Under extreme conditions, if breathing stops, perform artificial respiration. Seek immediate medical attention.</p>										
4.2	<p>Medical Conditions Aggravated by Exposure:</p> <p>Pre-existing dermatitis, other skin conditions, and pre-existing skin or eye disorders. Overexposure to product may cause lung damage and aggravate pulmonary conditions.</p> <p>Do no use on broken skin or irritated areas. In some individuals contact with skin may aggravate skin diseases such as eczema and contact dermatitis.</p> <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: #FFD700;">PHYSICAL HAZARDS</td> <td style="text-align: center;">0</td> </tr> <tr> <td colspan="2">PROTECTIVE EQUIPMENT</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> </tr> </table>	HEALTH	1	FLAMMABILITY	0	PHYSICAL HAZARDS	0	PROTECTIVE EQUIPMENT		EYES	SKIN
HEALTH	1										
FLAMMABILITY	0										
PHYSICAL HAZARDS	0										
PROTECTIVE EQUIPMENT											
EYES	SKIN										

5. FIREFIGHTING MEASURES

5.1	Flashpoint & Method: This product is not flammable.
5.2	Autoignition Temperature: ND
5.3	Flammability Limits: Lower Explosive Limit (LEL): NE Upper Explosive Limit (UEL): NE
5.4	Fire & Explosion Hazards: This product is not a flammable liquid. However, if involved in a fire, this product may ignite and decompose to form toxic gases (e.g., CO, CO₂, and NO_x, formaldehyde).
5.5	Extinguishing Methods: Water Fog, Foam, Dry Chemical, CO₂
5.6	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. 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.



6. ACCIDENTAL RELEASE MEASURES

6.1	Spills: Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. For <u>small spills</u> (e.g., < 1 gallon (3.785 liters)) 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. For <u>large spills</u> (e.g., ≥ 1 gallon (3.785 liters)), deny entry to all unprotected individuals. Don appropriate personal protective equipment (e.g., goggles, gloves, aprons, respirator). Dike and contain spill with inert material (e.g., sand or earth). Transfer product 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.
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7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices: Avoid eye contact. Avoid breathing vapors. Wear protective gloves and avoid direct skin contact whenever possible. Wash hands thoroughly after using this product and before eating, drinking, or smoking. Keep away from foodstuffs and beverages.
7.2	Storage & Handling: Use and store in a cool, dry, well-ventilated location (e.g., local exhaust ventilation is preferred, fans, open doors and windows). Do not store in damaged or unmarked containers or storage devices. Keep away from heat and direct sunlight. Keep containers securely closed when not in use.
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	Ventilation & Engineering Controls: Use with adequate ventilation (e.g., local exhaust ventilation is preferred, fans, open doors and windows). Ensure appropriate decontamination equipment is available (e.g., sink, safety shower, eye-wash station). Use in a chemical fume hood when working with large quantities of product, (e.g., ≥ 1 gallon (3.785 liters)) and provide adequate ventilation (e.g., local exhaust ventilation, fans).
8.2	Respiratory Protection: Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. 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, Canadian Standard CAS Z94.4-93 and applicable standards of Canadian Provinces, European Standard EN 149, or Australian equivalents.
8.3	Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
8.4	Hand Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.
8.5	Body Protection: Wear appropriate protective gloves and clothing to prevent skin exposure. When handling large quantities (e.g., ≥ 1 gallon (3.785 liters)), eye wash stations and deluge showers should be available.

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9. PHYSICAL & CHEMICAL PROPERTIES

9.1	Density:	NA
9.2	Boiling Point:	NA
9.3	Melting Point:	NA
9.4	Evaporation Rate:	NA
9.5	Vapor Pressure:	NA
9.6	Molecular Weight:	NA
9.7	Appearance & Color:	Lotion with a slight pungent odor.
9.8	Odor Threshold:	NA
9.9	Solubility:	Partially soluble in water.
9.10	pH	4.0-5.0
9.11	Viscosity:	NA
9.12	Other Information:	NA

10. STABILITY & REACTIVITY

10.1	Stability:	This product is stable when stored in a cool dry location out of direct sunlight and away from other sources of heat.
10.2	Hazardous Decomposition Products:	Oxides of carbon (CO, CO₂) and sulfur (SO₂), and formaldehyde gas.
10.3	Hazardous Polymerization:	Will not occur.
10.4	Conditions to Avoid:	Open flames, sparks, high heat, direct sunlight and close proximity to incompatible substances.
10.5	Incompatible Substances:	High temperatures, sources of heat and direct sunlight.

11. TOXICOLOGICAL INFORMATION

11.1	Toxicity Data:	This product has not been tested on animals to obtain toxicological data. Toxicology data for specific components of this product are found in scientific literature but are not presented in this document.
11.2	Acute Toxicity:	See section 2.5
11.3	Chronic Toxicity:	See section 2.6
11.4	Suspected Carcinogen:	Product releases formaldehyde (gas), a suspected carcinogen, which is listed as: OSHA: Carcinogen; NTP: Known Human Carcinogen (NTP 12th Report – June 10, 2011); IARC: Human Sufficient Evidence, Animal Sufficient Evidence, Group 1; ACGIH: A2 -Suspected Human Carcinogen; EC: Category 3
11.5	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 produce teratogenic effects in humans.
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.
11.6	Irritancy of Product:	See Section 2.3
11.7	Biological Exposure Indices:	NE
11.8	Physician Recommendations:	Treat symptomatically.

12. ECOLOGICAL INFORMATION

12.1	<p>Environmental Stability: The following statements refer to the environmental fate of <u>methylene glycol</u>. When released into the soil, this material is expected to leach into groundwater. When released into water, this material is expected to readily biodegrade. When released into water, this material is not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. Formaldehyde forms a strongly acidic aqueous solution, and this property may cause adverse environmental effects.</p>
12.2	<p>Effects on Plants & Animals: There is no specific data available for this product.</p>
12.3	<p>Effects on Aquatic Life: Fish Toxicity: 4960 µg/L 96 hour(s) LC₅₀ (Mortality) Striped bass (<i>Morone saxatilis</i>) Invertebrate Toxicity: 14000 µg/L 48 hour(s) EC₅₀ (Physiological) Water flea (<i>Daphnia magna</i>) Algal Toxicity: 4500 µg/L 48 hour(s) (Population Growth) Cryptomonad (<i>Chilomonas paramecium</i>) Fate and Transport: K_{OW}: 151.36 (log = 2.18) (estimated from water solubility); K_{OC}: 481.95 (log = 2.69) (estimated from water solubility)</p>

13. DISPOSAL CONSIDERATIONS

13.1	<p>Waste Disposal: Dispose of in accordance with federal, state and local regulations.</p>
13.2	<p>Special Considerations: Dispose of in accordance with federal, state and local regulations.</p>

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, CTDGR, SCT and ADGR.




14.1	<p>49 CFR (GND): NOT REGULATED</p>	
14.2	<p>IATA (AIR): NOT REGULATED</p>	
14.3	<p>IMDG (OCN): NOT REGULATED</p>	
14.4	<p>TDGR (Canadian GND): NOT REGULATED</p>	
14.5	<p>ADR/RID (EU): NOT REGULATED</p>	
14.6	<p>SCT (MEXICO): NOT REGULATED</p>	
14.7	<p>ADGR (Australia): NOT REGULATED</p>	

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15. REGULATORY INFORMATION

15.1	<p>U.S. EPA SARA Reporting Requirements: This product contains Methylene Glycol, a substance subject to SARA 313 reporting requirements.</p>	
15.2	<p>U.S. EPA SARA Threshold Planning Quantity: Formaldehyde: 27.7 kg (500 lbs) TPQ – SARA 302; 15000 lbs CAA -112 RQ</p>	
15.3	<p>TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempted from inventory status.</p>	
15.4	<p>U.S. EPA CERCLA Reportable Quantity (RQ): Formaldehyde: 45.4 kg (100 lbs) - SARA 304</p>	
15.5	<p>Other U.S. Federal Requirements: This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics). Clean Air Act: This material does not contain any hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters. Clean Water Act: None of the chemicals in this product are listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. OSHA Process Safety TQ: 454 kg (1000 lbs)</p>	
15.6	<p>Other Canadian Regulations: This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL.</p>	
15.7	<p>U.S. State Regulatory Information: Methylene Glycol (listed as formaldehyde/formalin) is found on the following state criteria lists: California Proposition 65 (CA); Florida Toxic Substances List (FL); Massachusetts Hazardous Substances List (MA); Minnesota Hazardous Substances List (MN); New Jersey Right-to-Know List (NJ); Pennsylvania Right-to-Know List (PA); Washington Permissible Exposures List (WA); Wisconsin Hazardous Substances List (WI). Glycerin is found on the following state criteria lists: MA, MN, PA, WA. WARNING: Use of Brazilian Blowout Açai Professional Smoothing Solution as directed will expose you to <u>Formaldehyde</u> (gas), a chemical known to the State of California to cause cancer.</p>	
15.8	<p>67/548/EEC (European Union) and Australia NOHSC:2011 (2003) Requirements: The primary components of this product are not listed in Annex I of EU Directive 67/548/EEC. Formaldehyde [(1 % ≤ C < 5 %) ; Harmful (Xn)] is listed in Annex I of EU Directive 67/548/EEC. Risk Phrases (R): R40 - Limited evidence of a carcinogenic effect. R43 - May cause sensitisation by skin contact. WARNING! MAY CAUSE AN ALLERGIC SKIN REACTION. PRODUCT RELEASES FORMALDEHYDE (GAS), A SUSPECTED CARCINOGEN. Hazard Statements (H): H317 – May cause an allergic skin reaction. Precautionary Statements (P): P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P261 – Avoid breathing dust/fume/gas/mist/vapours/spray. P272 – Contaminated work clothing should not be allowed out of the workplace. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P281 – Use personal protective equipment as required. P302+P352 – IF ON SKIN: Wash with soap and water. P308+P313 - IF exposed or concerned: Get medical advice/attention. P333+P313 – If skin irritation or a rash occurs: Get medical advice/attention. P321 – Specific treatment (see section 4.1 of this Safety Data Sheet). P363 – Wash contaminated clothing before reuse. P405 – Store locked up. P501 – Dispose of contents/container to licensed, authorized treatment, storage and disposal facility (see Section 13.1 of this Safety Data Sheet). HazChem Code: None allocated. Poison Schedule: None allocated.</p>	 

16. OTHER INFORMATION

16.1 Other Information:
Do not ingest. If swallowed, do not induce vomiting; seek medical attention. Avoid eye contact. Keep out of reach of children. If redness or other signs of adverse reaction occur, discontinue use immediately. If irritation persists, seek medical attention. FOR PROFESSIONAL USE ONLY.

16.2 Terms & Definitions:
Please see last page of this MSDS.

16.3 Disclaimer:
This Material 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 & BRAZILIAN BLOWOUT's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness are 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:
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16.5 Prepared by:
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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. 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
TLV	Threshold Limit Value
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
IDLH	Immediately Dangerous to Life and Health

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.

Note: the dotted circle indicates that this respiratory protective equipment is required for high concentrations or for large volume spills or releases of product.

OTHER STANDARD ABBREVIATIONS:

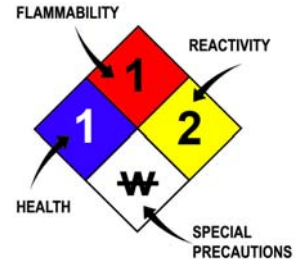
NA	Not Available
NR	No Results
NE	Not Established
ND	Not Determined
ML	Maximum Limit
SCBA	Self-Contained Breathing Apparatus

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, & LD₀ or TC, TC₀, LC₁₀, & LC₀	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:

A	B	C	D1	D2	D3	E	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:

GH01	GH02	GH03	GH04	GH05	GH06	GH07	GH08	GH09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment