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SECTION 1. IDENTIFICATION


Brand: Cre8tion

Trade Name: Soak Off Gel Mood Changing Color 0.5oz

Product Number: Total 48 Colors (#01: 09101, ...)

Address: 11561 Westminster Ave, Garden Grove, CA 92843

SECTION 2. HAZARDS IDENTIFICATION

2.1	Hazard Identification:	<p>This product is classified as a hazardous substance and as dangerous goods according to the classification criteria of NOHSC: 1008 (2004) and ADG Code (Australia).</p> <p>WARNING! FLAMMABLE LIQUID AND VAPOR. SUSPECTED OF DAMAGING FERTILITY. HARMFUL IF SWALLOWED. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION.</p> <p><u>Classification:</u> Flam Liq. 2; Acute Tox. 4, Skin Sens. 1; Eye Irrit. 2; Repr. 2</p> <p><u>Hazard Statements (H):</u> H226 – Flammable liquid and vapor. H302 – Harmful if swallowed. H315 – Cause skin irritation. H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation. H335 – May cause respiratory irritation. H361 – Suspected of damaging fertility. H402 – Harmful to aquatic life.</p> <p><u>Precautionary Statements (P):</u> P312 – Call a POISON CENTER/doctor if you feel unwell. P201 – Obtain special instructions before use. P202 – Do not handle until all safety precautions have been read and understood. P210 – Keep away from heat/sparks/open flames/hot surfaces – no smoking. P261 – Avoid breathing dust. P242 – use only non-sparking tools. P243 – take precautionary measures against static discharge. P264 – Wash thoroughly with soap and water after handling. P271 – Use only in well-ventilated area. P273 – Avoid release to the environment. P280 – Wear protective gloves/eye protection/face protection. P303+P361+P353 – IF ON SKIN (or hair): Remove/take-off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 – IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+P313 – If eye irritation persists: Get medical advice/attention. P321 – Specific treatments see this container label or section 4 First Aid of this SDS. P332+P313 – If skin irritation occurs: Get medical advice/attention. P362+P364 – Take off contaminated clothing and wash before reuse. P403+P235 – Store in a well-ventilated place and keep cool. Keep container tightly closed. P405 – Store locked up. P501 – Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF).</p>	
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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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		
URETHANE ACRYLATE OLIGOMER	NA	NA	NA	30-60	NA	NA	NF	NF	NF	NA	NA	NA		
HEMA	868-77-9	OZ4725000	212-782-2	10-30	NA	NA	NF	NF	NF	NA	NA	NA	Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1; H319, H315, H317	
ISOBORNYL METHACRYLATE	7534-94-3	NA	231-403-1	5-10	NA	NA	NF	NF	NF	NA	NA	NA	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	NA	213-426-9	5-10	NA	NA	NF	NF	NF	NA	NA	NA	Acute Tox. Oral 5; Aquatic Acute 3; H303, H402	
ALKOXYLATED DIACRYALTE	NA	NA	NA	3-7	NA	NA	NF	NF	NF	NA	NA	NA		
ETHOXYLATED TRIMETHYLOPROPANE TRIACRYLATE ESTERS (ETPTA)	28961-43-5	NA	NA	3-7	NA	NA	NF	NF	NF	NA	NA	NA	Skin Irrit. 2; Eye Irrit.; STOT SE 3; H315, H319, H335	
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	75980-60-8	NA	278-355-8	3-5	NA	NA	NF	NF	NF	NA	NA	NA	Repr. 2; Aquatic Chronic 2; H361f, H411.	
MICROCAPSULE DYE	NA	NA	NA	1-5	NA	NA	NF	NF	NF	NA	NA	NA		
MAY ALSO CONTAIN (COLORANTS, SHIMMERS & COLOR BLEND COMPONENTS):														
BUTYL ACETATE	123-86-4	AF7350000	204-658-1	≤ 1.0	150	200	150	200	NF	200	200	1700	100 NIOSH	Flam. Liq. 3; STOT SE 3; H226, H336
ETHYL ACETATE	141-78-6	AH5425000	205-500-4	≤ 1.0	400	400	200	400	NF	NA	NA	2000	400 TWA	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336
NITROCELLULOSE	9004-70-0	QW0970000	NA	≤ 1.0	400	400	400	200	NF	NA	NA	2000		Flam. Liq. 2; H225
ISOPROPYL ALCOHOL	67-63-0	NT8050000	200-661-7	≤ 1.0	400	500	400	500	NF	400	500	2000	400 TWA	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336
CI 77499 (IRON OXIDES)	1317-61-9	NA	215-277-5	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 77891 (TITANIUM DIOXIDE)	13463-67-7	XR2275000	236-675-5	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 15850 (RED 6)	5858-81-1	NA	227-497-9	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 15850 (RED DARK 7)	5281-04-9	QJ1975000	226-109-5	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 15850 (RED 7)	5281-04-9	QJ1975000	226-109-5	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 15880 (RED 34)	6417-83-0	NA	229-142-3	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 42090 (BLUE 1)	3844-45-9	BQ4725000	223-339-8											
CI 19140 (YELLOW 5)	1934-21-0	UQ6400000	217-699-5	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 15985 (YELLOW 6)	2783-94-0	NA	220-491-7	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 77007 (ULTRAMARINE BLUE)	1317-97-1	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 77163 (BISMUTH OXYCHLORIDE)	7787-59-9	EB2700000	232-122-7	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		


SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS (cont.)

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		
CI 77510 (AMMONIUM FERROCYANIDE)	25869-00-5	NA	247-304-1	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 77499 (IRON OXIDES)	1317-61-9	NA	215-277-5	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
CI 77491 (IRON OXIDES)	1309-37-1	NO740000	215-168-2	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
MICA	12001-26-2	VV8760000	310-127-6	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
POLYETHYLENE TEREPHTHALATE	25038-59-9	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		
DYED POLYMER	NA	NA	NA	≤ 1.0	NA	NA	NF	NF	NF	NA	NA	NA		

SECTION 4. FIRST AID MEASURES

4.1	First Aid:	<p>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>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>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. Avoid inhalation of vapor or mist. Remove victim to fresh air.</p>	
4.2	Effects of Exposure:	<p><u>Ingestion</u>: If product is swallowed, may cause nausea, vomiting and/or diarrhea and central nervous system depression.</p> <p><u>Eyes</u>: Irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p><u>Skin</u>: May be irritating to skin in some sensitive individuals, especially after prolonged and/or repeated contact. <u>Inhalation</u>: Vapors of this product may be slightly irritating to the nose, throat and other tissues of the respiratory system. Symptoms of overexposure can include coughing, wheezing, nasal congestion, and difficulty breathing. Inhalation of vapors exceeding the levels listed in Section 3 (Composition and Ingredient Information) can cause central nervous system depression (e.g., drowsiness, dizziness, headaches, nausea).</p>	
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure in individuals may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering.	
4.4	Acute Health Effects:	Mild to moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.	
4.5	Chronic Health Effects:	None known.	
4.6	Target Organs:	Eyes, Skin and 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).	
		HEALTH	1
		FLAMMABILITY	2
		PHYSICAL HAZARDS	0
		PROTECTIVE EQUIPMENT	B
		EYES	
		SKIN	

SECTION 5. FIRE-FIGHTING MEASURES

5.1	Fire & Explosion Hazards:	WARNING! FLAMMABLE LIQUID AND VAPOR! Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed.	
5.2	Extinguishing Methods:	CO ₂ , Halon (if permitted), Dry Chemical, Foam, as authorized.	
5.3	Firefighting Procedures:	<p>This product is a Class IB flammable liquid. When involved in a fire, this product will ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container.</p> <p>First responders should wear eye protection. Structural firefighters must wear SCBAs and full protective equipment. Use a water spray or fog to reduce or direct vapors. Water may not be effective in actually extinguishing a fire involving this product. <u>HazChem Code:</u> 3(Y)E <u>Hazard Identification Number:</u> 33</p>	

SECTION 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) and secure all sources of ignition. 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). Use ONLY non-sparking tools for recovery and cleanup. 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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SECTION 7. HANDLING AND STORAGE

7.1	Work & Hygiene Practices:	Avoid prolonged contact with the product. Avoid breathing vapors of this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.
7.2	Storage & Handling:	Keep this material away from heat, sparks and open flame. Open containers slowly on a stable surface. Keep container closed tightly when not in use. Empty container may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Store away from incompatible materials (see Section 10).
7.3	Special Precautions:	Open containers slowly on a stable surface. Keep container tightly closed when not in use. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care.

SECTION 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	
		BUTYL ACETATE	150	200	150	200	NF	200	200	1700	100 NIOSH
		ETHYL ACETATE	400	400	200	400	NF	NA	NA	2000	400 TWA
		NITROCELLULOSE	400	400	400	200	NF	NA	NA	2000	
		ISOPROPYL ALCOHOL	400	500	400	500	NF	400	500	2000	400 TWA
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. 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:	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:	AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber 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:	AVOID SKIN CONTACT DUE TO SENSITIZING POTENTIAL. However, no special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.									

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Liquid, various colors
9.2	Odor:	NA
9.3	Odor Threshold:	NA
9.4	pH:	NA
9.5	Melting Point/Freezing Point:	NA
9.6	Initial Boiling Point/Boiling Range:	NA
9.7	Flashpoint:	>42 °C (>107.6 °F), ASTM D-93
9.8	Upper/Lower Flammability Limits:	NA
9.9	Vapor Pressure:	NA
9.10	Vapor Density:	NA
9.11	Relative Density:	1.100-1.300
9.12	Solubility:	Insoluble
9.13	Partition Coefficient (log P _{ow}):	NA
9.14	Autoignition Temperature:	NA
9.15	Decomposition Temperature:	NA
9.16	Viscosity:	2,230 cPs
9.17	Other Information:	NA

SECTION 10. STABILITY AND REACTIVITY

10.1	Stability:	Stable under ambient conditions when stored properly (see Section 7, Storage and Handling)
10.2	Hazardous Decomposition Products:	If exposed to extremely high temperatures, the products of thermal decomposition may include irritating vapors and carbon oxide gases (e.g., CO, CO ₂).
10.3	Hazardous Polymerization:	May occur, if exposed to extremely high temperatures.
10.4	Conditions to Avoid:	Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.
10.5	Incompatible Substances:	This product is incompatible with strong oxidizers (e.g., peroxides, superoxides), strong acids (e.g., hydrochloric or muriatic acids), or strong bases (e.g., lye, potassium hydroxide).

SECTION 11. TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation:	Absorption:	Ingestion:
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: <u>Ethyl Acetate</u> : LD ₅₀ (oral, rat) = 5,620 mg/kg; LD ₅₀ (oral, mouse) = 4,100 mg/kg; LC ₅₀ (inh-6h, rat) = 16,000 ppm		
11.3	Acute Toxicity:	See Section 2.4		
11.4	Chronic Toxicity:	See Section 2.5		
11.5	Suspected Carcinogen:	This product contains <u>Ethyl Acetate</u> and <u>Isopropyl Alcohol</u> , which are not carcinogenic to humans, but are listed as Group 3 carcinogens by the IARC.		
11.6	Reproductive Toxicity:	This product is not reported to produce 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 produce teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to cause reproductive effects in humans.		
11.7	Irritancy of Product:	See Section 2.3		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		

SECTION 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: <u>Ethyl Acetate</u> : K _{OC} = 0.73. Water solubility: 64,000 mg/l. Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. <u>Butyl Acetate</u> : K _{OC} = 1.82. Water solubility: 120 parts H ₂ O at 25 °C (77 °F). Bioconcentration Factor = 4-14. Bioconcentration is not anticipated to be significant. This compound can be removed from contaminated environments from volatilization, and biodegradation. This compound's half-life in water is 6.1 hours. <u>Isopropyl Alcohol</u> : Log K _{ow} = 0.05-0.14. Isopropyl alcohol occurs naturally; it is generated during microbial degradation of plant and animal wastes. When released on land or water, it is apt to volatilize and biodegrade. The estimated halflife in water is 5.4 days. Isopropyl alcohol is not expected to bioconcentrate.
12.2	Effects on Plants & Animals:	There are no specific data available for this product.
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

SECTION 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)

SECTION 14. TRANSPORT 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):	UN1263, PAINT, 3, III, LTD QTY (IP VOL ≤ 5.0 L) or CONSUMER COMMODITY, ORM-D – until 01/01/2021	
14.2	IATA (AIR):	ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 0.5 L) UN1263, PAINT, 3, III (IP VOL ≤ 1.0 L)	or
14.3	IMDG (OCN):	UN1263, PAINT, 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	
14.4	TDGR (Canadian GND):	UN1263, PAINT, 3, III, (LTD QTY, IP VOL ≤ 5.0 L); or “LIMITED QUANTITY” or “QUANTITÉ LIMITÉE” or “LTD QTY” or “QUANT LTÉE” (≤ 1.0 L)	
14.5	ADR/RID (EU):	UN1263, PAINT, 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	
14.6	SCT (MEXICO):	UN1263, PINTURA, 3, III, (CANTIDAD LIMITADA, IP VOL ≤ 5.0 L)	
14.7	ADGR (AUS):	UN1263, PAINT, 3, III, (LTD QTY, IP VOL ≤ 5.0 L)	
14.8	OTHER:	* This product may also be shipped as an Excepted Quantity (IP VOL ≤ 30 ml, TOTAL PKG QTY ≤ 500 ml)	*

SECTION 15. REGULATORY INFORMATION

15.1	SARA Reporting Requirements:	This product contains <u>Isopropanol</u> , a substance subject to SARA Title III, section 313 reporting requirements. This product contains <u>Ethyl Acetate</u> , a substance that is subject to SARA Title III, section 304 reporting.	
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.	
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.	
15.4	CERCLA Reportable Quantity (RQ):	<u>Ethyl Acetate</u> : 2,270 kg (5,000 lbs); <u>Butyl Acetate</u> : 2,270 kg (5,000 lbs)	
15.5	Other Federal Requirements:	This product complies with the appropriate sections of the Food and Drug Administration’s 21 CFR subchapter G (Cosmetics).	
15.6	Other Canadian Regulations:	This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. WHMIS B2, D2B (Flammable, Other Toxic Effects).	
15.7	State Regulatory Information:	<u>Ethoxylated Trimethylolpropane Triacrylate Esters (ETPTA)</u> is found on the following state criteria list: PA and NJ. No other ingredients in this product, present in a concentration of 1.0% or greater, are listed on any of the following state criteria lists: California Proposition 65 (CA65), Delaware Air Quality Management List (DE), Florida Toxic Substances List (FL), Massachusetts Hazardous Substances List (MA), Michigan Critical Substances List (MI), Minnesota Hazardous Substances List (MN), New Jersey Right-to-Know List (NJ), New York Hazardous Substances List (NY), Pennsylvania Right-to-Know List (PA), Washington Permissible Exposures List (WA), Wisconsin Hazardous Substances List (WI).	
15.8	Other Requirements:	NA	

SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.1	Other Information:	WARNING! FLAMMABLE LIQUID AND VAPOR. SUSPECTED OF DAMAGING FERTILITY. HARMFUL IF SWALLOWED. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE RESPIRATORY IRRITATION. Call a POISON CENTER/doctor if you feel unwell. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces – no smoking. Avoid breathing dust. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly with soap and water after handling. Use only in well-ventilated area. Avoid release to the environment. Wear protective gloves/eye protection/face protection. IF ON SKIN (or hair): Remove/take-off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists: Get medical advice/attention. Specific treatments see this container label or section 4 First Aid of this SDS. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Store in a well-ventilated place and keep cool. Keep container tightly closed. Store locked up. KEEP OUT OF REACH OF CHILDREN.
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.
16.3	Disclaimer:	This Material Safety Data Sheet is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.

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
IDLH	Immediately Dangerous to Life and Health
OSHA	U.S. Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value

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		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
NA	Not Available
ND	Not Determined
NE	Not Established
NF	Not Found
NR	No Results
SCBA	Self-Contained Breathing Apparatus

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source

HAZARD RATINGS:

0	Minimal Hazard
1	Slight Hazard
2	Moderate Hazard
3	Severe Hazard
4	Extreme Hazard
ACD	Acidic
ALK	Alkaline
COR	Corrosive
W	Use No Water
OX	Oxidizer
TREFOIL	Radioactive



TOXICOLOGICAL INFORMATION:

LD₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals
LC₅₀	Lethal concentration (gases) which kills 50% of the exposed animal
ppm	Concentration expressed in parts of material per million parts
TD₀₁	Lowest dose to cause a symptom
TCLO	Lowest concentration to cause a symptom
TD₀₁, LD₀₁ & LD₅₀ or TC, TC₀₁, LC₀₁ & LC₅₀	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

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