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

SDS Revision: 1.0

SDS Revision Date: 9/23/2022

ı		1.	PRODUC	T & COM	<b>PANY</b>	IDE	NTIF	ICA	TIOI	N				
1.1	Product Name:	BUBBLE SAUCE												
1.2	Chemical Name:	Aqueous Solution												
1.3	Synonyms:	NA NA												
1.4	Trade Names:	Bubble Sauce												
1.5	Product Use:	High gloss fast wax												
1.6	Distributor's Name:	Boat Bling, Inc.												
1.7	Distributor's Address:  Emergency Phone:			e 63, Phoenix,										
1.8	Emergency Phone:		` '	-8253 / +1 (	•		7 (CI	N 111	68) N	IORT	H AI	MERI	CA	
1.0	Business Phone / Fax:			764 766   <i>A</i>	Au: 13 1	1 26								
1.9	Business Phone / Fax:	+1 (800) 84	16-4899 / +1 (6	523) 561-8106										
			2. H	AZARDS	IDENT	IFIC	ATIC	ON						
2.1	Hazard Identification:	Prepared i							ended	to con	nply w	ith OS	HA 29 (	CFR 1910.1200,
ı				ustralian Work							' '			
ı		WARNING	! CAUSES S	ERIOUS EYE I	IRRITATIO	N. CA	AUSES	MILD	SKIN	IRRIT	ATIO	N.		
		Classificat	<u>ion</u> : Eye Irrit. 2	A; Skin Irrit. 3										
2.2	Label Elements:	Signal Wo	<u>rd</u> : Warning											
ì			. ,	H316 – Causes							•			•
ı				<u>s</u> (P): P264 – V										
i				ndling. P280 - \										
ı				IN: Wash with ment see secti										
i				ice/attention. P										
ı				51+P338 – IF										
i				t lenses if pre		easy to	do –	continu	ıe rins	ing. P	337+F	P317 –	lf	
2.3	Other Warnings:			t medical help.										
2.3	Other Warnings.	KEEP OU	T OF REACH	OF CHILDREN	1									
		2 01	NADOOIT	10N 0 IN	0DEDI				4 A T	1011				
		3. 00	DINIPOSIT	ION & IN	GKEDI	<u>ENI</u>	INF	OKI					, 3,	
ı						AC	GIH		NOHSC		IMITST	N AIR (m OSHA	ig/m°)	
ı						-	om		ppm			ppm		
CUEM	CAL NAME(C)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES-	ES- PEAK	PEL	STEL	IDLH	OTHER
CHEIVII	CAL NAME(S)	CAS NO.							STEL					OTHER
WATE	R	7732-18-5	ZC0110000	231-791-2	60-100	NA	NA	NF	NF	NF	NA	NA	NA	
	OLEUM DISTILLATES OTREATED LIGHT	NA	NA	NA	5-10	NA	NA	NF	NF	NF	NA	NA	NA	
	INUM OXIDE	1344-28-1	BD1200000	215-691-6	1-5	NA	NA	NF	NF	NF	NA	NA	NA	
14617		NA	NA	NA	1-3	NA	NA	NF	NF	NF	NA	NA	NA	
MONT	AN WAX EMULSION													
POLY	METHYLDISILOXANE	63148-62-9	JT6484500	213-915-7	1-3	NA	NA	NF	NF	NF	NA	NA	NA	
	OFUNCTIONAL	NA	NA	NA	1-3	NA	NA	NF	NF	NF	NA	NA	NA	
POLY	DIMETHYLSILOXANE	NA	NA	NA	1-3	NA	NA	NF	NF	NF	NA	NA	NA	
PRES	ERVATIVE	14/ (	111/-1	14/1	1-0	1 17 1	14/1		141	. "			14/1	
	EITOTTIVE													
			4.	FIRST A	ID MEA	SUF	RES							
4.1	First Aid:	Ingestion:	If ingest	ed, do not ind	uce vomiti	ng. If	produ	ict has						of water or milk
4.1		Ingestion:	If ingest	ed, do not ind ATELY. If the	uce vomiti patient is v	ng. If	produg, con	ict has tinue to	offer	water	or mil	k. Nev	er give	water or milk to
4.1		Ingestion:	If ingest IMMEDI an unco	ed, do not ind ATELY. If the nscious persoi	uce vomiti patient is v n. Contac	ng. If omiting	produ g, con neares	ict has tinue to t Poise	offer on Co	water ntrol C	or mil Center	k. Nev	er give al eme	water or milk to rgency number.
4.1		Ingestion:	If ingest IMMEDI an unco Provide	ed, do not ind ATELY. If the nscious persoi	uce vomiti patient is v n. Contac	ng. If omiting	produ g, con neares	ict has tinue to t Poise	offer on Co	water ntrol C	or mil Center	k. Nev	er give al eme	water or milk to
4.1		Ingestion:	If ingest IMMEDI an unco Provide that was Splashes	ed, do not ind ATELY. If the nscious person an estimate of swallowed. s are not likely;	uce vomiti patient is v n. Contac the time a	ng. If yomiting the the reconstruction of th	produg, conneares	ict has tinue to it Poise nateria	o offer on Co I was i	water ntrol C ingeste	or mil Center ed and	k. Nev or loo	er give al eme mount o	water or milk to rgency number.
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4.1			If ingest IMMEDI, an unco Provide that was Splashes water for thorough	ed, do not ind ATELY. If the nscious person an estimate of swallowed. s are not likely; at least 15 min on occurs and a washing of th	uce vomiti patient is v n. Contact the time a ; however, nutes. If ir product is e affected	ng. If yomiting the the return th	produg, conneares the number of the number o	ict has tinue to it Poiso nateria its in the s, cont , rinse	o offer on Co I was i e eyes act a p thorou	water ntrol C ingeste s, flush ohysici ughly v	or mil Center ed and n with an. with lu	k. New or lood the a copiou	ver give cal eme mount of samount of the mount of the mou	water or milk to rgency number. of the substance
4.1		Eyes:	If ingest IMMEDI. an unco Provide that was Splashes water for If irritatic thorough contact a	ed, do not ind ATELY. If the nscious person an estimate of swallowed. s are not likely; at least 15 min on occurs and	uce vomiti patient is v n. Contact the time a ; however, nutes. If ir product is e affected nediately.	ng. If yomiting the rit which if product if production on the area w	produg, conneares the number of the number o	ict has tinue to it Poiso nateria its in the s, cont , rinse	o offer on Co I was i e eyes act a p thorou	water ntrol C ingeste s, flush ohysici ughly v	or mil Center ed and n with an. with lu	k. New or lood the a copiou	ver give cal eme mount of samount of the mount of the mou	water or milk to rgency number. of the substance ints of lukewarm r, followed by a



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		4. FIRST AID MEASURES-cont'd	<u>k</u>			
4.2	Effects of Exposure:	Ingestion:				on. However,
4.3	Symptoms of Overexposure:	Eyes: Overexposure in eyes may cause redness, itching and watering (risk of serious damage to eyes Contact may cause serious eye irritation including stinging, watering, redness.  Skin: Prolonged contact with skin may result in bleaching and irritation of skin. The product can caus allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. Symptoms skin overexposure may include redness, itching, and irritation of affected areas.			ct can cause	
4.4	Acute Health Effects:	Moderate irritation to eyes. Moderate irritation to skin near affect Most common symptoms include irritating properties to eyes, response.	ted areas.	Acute health	n hazards may	be delayed
4.5	Chronic Health Effects:	No harmful or chronic health effects are expected to occur from a be irritating to skin and mucous membrane of the eye and respirat symptoms in some sensitive individuals. May also induce skin sen allergic dermatitis.	tory system	. Overexposi	ure may trigge	r asthma-lik
4.6	Target Organs:	Eyes, Skin				
4.7	Medical Conditions Aggravated by Exposure:	Pre-existing dermatitis, other skin conditions, and disorders of the	HEALTH			1
	Exposure.	target organs (eyes, skin) or impaired kidney function may be more susceptible to the effects of this substance.	FLAMM. PHYSIC	ABILITY AL HAZAR	DS	0
			PROTEC	CTIVE EQU	IPMENT	В
			EYES	SKIN		<del>_  </del>
			0	10	ı	ı
		Tourbon dioxido, rodini, water opray, ridion (ii permittod), dry enem	noar change	, IOI ICI .		
5.3	Firefighting Procedures:	Carbon dioxide, foam, water spray, Halon (if permitted), dry chem As with any fire, firefighters should wear appropriate protect MSHA/NIOSH approved or equivalent self-contained breathing protective clothing. Hazardous decomposition products may be remay produce oxides of carbon, and/or nitrogen, hydrocarbons are be fought from a safe distance. Prevent runoff from fire control or drains, drinking water supply, or any natural waterway.	ctive equipring appara eleased. The nd/or derivation fron	ment includii tus (SCBA) ermal degrad atives. Fire sh	and ation nould	0
		As with any fire, firefighters should wear appropriate protect MSHA/NIOSH approved or equivalent self-contained breathing protective clothing. Hazardous decomposition products may be read that the produce oxides of carbon, and/or nitrogen, hydrocarbons are be fought from a safe distance. Prevent runoff from fire control or drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASU	ctive equipi ing appara eleased. The nd/or deriva dilution fron	ment includir tus (SCBA) ermal degrad atives. Fire sh n entering sev	and ation nould wers,	0
6.1	Firefighting Procedures:  Spills:	As with any fire, firefighters should wear appropriate protect MSHA/NIOSH approved or equivalent self-contained breathing protective clothing. Hazardous decomposition products may be remay produce oxides of carbon, and/or nitrogen, hydrocarbons are be fought from a safe distance. Prevent runoff from fire control or drains, drinking water supply, or any natural waterway.	ctive equipring appara eleased. The nd/or derive dilution from the control of the	ment including tus (SCBA) ermal degrad attives. Fire standard transfer several transfer expension and transfer exp	and ation nould wers,  priate Personent (e.g., gogg move spilled in of properly in rwith plenty of and contain saterial). Tran proper dispos	gles, gloves). material with accordance f warm water spill with iner sfer liquid to sal. Remove
		As with any fire, firefighters should wear appropriate protect MSHA/NIOSH approved or equivalent self-contained breathing protective clothing. Hazardous decomposition products may be remay produce oxides of carbon, and/or nitrogen, hydrocarbons are be fought from a safe distance. Prevent runoff from fire control or of drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASU  Before cleaning any spill or leak, individuals involved in spill clead Equipment.  For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal Maximize ventilation (open doors and windows) and secure all absorbent material and place into appropriate closed container(swith local, state and federal regulations. Wash all affected areas and soap. Remove any contaminated clothing and wash thoroug For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotonaterial (e.g., bentonite, vermiculite, or commercially available containers for recovery or disposal and solid diking material to contaminated clothing promptly and wash affected skin areas with out of municipal sewers and open bodies of water.	ctive equipring apparaleased. The modern dilution from the control of the control	ment including tus (SCBA) ermal degrad attives. Fire standard transfer several transfer expension and transfer exp	and ation nould wers,  priate Personent (e.g., gogg move spilled in of properly in rwith plenty of and contain saterial). Tran proper dispos	gles, gloves). material with accordance f warm water spill with iner sfer liquid to sal. Remove
		As with any fire, firefighters should wear appropriate protect MSHA/NIOSH approved or equivalent self-contained breathing protective clothing. Hazardous decomposition products may be read that the protective clothing. Hazardous decomposition products may be read to be fought from a safe distance. Prevent runoff from fire control or drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASU  Before cleaning any spill or leak, individuals involved in spill clead Equipment.  For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal maximize ventilation (open doors and windows) and secure all absorbent material and place into appropriate closed container(swith local, state and federal regulations. Wash all affected areas and soap. Remove any contaminated clothing and wash thoroug For large spills (e.g., > 1 gallon (3.8 L)), deny entry to all unprotomaterial (e.g., bentonite, vermiculite, or commercially available containers for recovery or disposal and solid diking material to contaminated clothing promptly and wash affected skin areas with	RES eanup mus onal protects of disposed areas skin contact  apparate protects and outside separate or h soap and attion  attion  attion  bed attion  contact  contact	ment including tus (SCBA) ermal degrad attives. Fire shall nemering several to wear appropriate equipment ignition. Resal. Dispose e of container reuse. In including the including several experiments for water. Keep thoroughly we wash hands	and ation nould wers,  priate Person.  ent (e.g., gogg move spilled in of properly in rate with plenty of and contains aterial). Tran proper dispose o spills and cle	gles, gloves) material with accordance f warm water spill with iner sfer liquid to sal. Remove aning runoffs water. Avoic g, and before
6.1	Spills:	As with any fire, firefighters should wear appropriate protect MSHA/NIOSH approved or equivalent self-contained breathing protective clothing. Hazardous decomposition products may be remay produce oxides of carbon, and/or nitrogen, hydrocarbons are be fought from a safe distance. Prevent runoff from fire control or of drains, drinking water supply, or any natural waterway.  6. ACCIDENTAL RELEASE MEASU  Before cleaning any spill or leak, individuals involved in spill clease Equipment.  For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal maximize ventilation (open doors and windows) and secure all absorbent material and place into appropriate closed container(swith local, state and federal regulations. Wash all affected areas and soap. Remove any contaminated clothing and wash thoroug For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotomaterial (e.g., bentonite, vermiculite, or commercially available containers for recovery or disposal and solid diking material to contaminated clothing promptly and wash affected skin areas with out of municipal sewers and open bodies of water.  7. HANDLING & STORAGE INFORMA  Do not eat, drink or smoke when using this product. Wash experience with the product of th	RES eanup mus onal protects of sources of sources of sources of solid protected individual inorganic as separate of h soap and ATION Desed areas skin contact achining. V	ment including tus (SCBA) tus (SCBA) turned degrad titves. Fire shall net entering several turned tu	and ation nould wers,  priate Person.  ent (e.g., gogg move spilled in of properly in r with plenty of and contain saterial). Tran proper dispose o spills and cle	ples, gloves) material with accordance f warm water spill with iner sfer liquid to sal. Remove aning runoffs water. Avoic g, and before t, keep moisi



Exposure Limits:

Respiratory Protection:

Eve Protection:

Hand Protection:

Body Protection:

Appearance:

Flashpoint:

Vapor Pressure:

Relative Density:

Vapor Density

Solubility

Viscosity:

Other Information:

Odor Threshold:

ppm (ma/m<sup>3</sup>)

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## SAFETY DATA SHEET

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**BB-010** SDS Revision: 1.0 SDS Revision Date: 9/23/2022 8. EXPOSURE CONTROLS & PERSONAL PROTECTION OSHA OTHER STEL IDI H CHEMICAL NAME(S) STEL TWA STEL PEAK PEL NA NA NF NF NF NA NA NA Ventilation & Engineering Controls: Provide appropriate local exhaust ventilation on open containers. When using keep the product moist at all times. Use in an enclosed process area is recommended. Use in a well-ventilated area. Do not use in a confined area or areas with little or no air movement. No special respiratory protection is required under typical circumstances of use or handling. In instances where mist or vapors 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. Always use protective eyewear when cleaning spills or leaks. Wear goggles and/or face shield if splashing or spraying is anticipated. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants. Have suitable eye wash water available. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Nitrile Rubber. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the E.C. member states No special body protection is required under typical circumstances of use and handling. Avoid prolonged and/or repeated skin contact. Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing should include long-sleeves, apron, boots and additional facial protection. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA. 9. PHYSICAL & CHEMICAL PROPERTIES Yellow milky viscous liquid Fragrant odor NA 7 - 8 Melting Point/Freezing Point: 0 °C (32 °F) Initial Boiling Point/Boiling Range: 100 °C (212 °F) NA Upper/Lower Flammability Limits: NA NA NA 1.0 - 1.1 (8.4 lb/gal) Complete Partition Coefficient (log Pow): NA Autoignition Temperature: NA Decomposition Temperature: NA NA Evaporation Rate: Negligible; VOC: 0.0%

### 10. STABILITY & 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 irritation vapors and nitrogen and carbon oxide gases (e.g. NO <sub>x</sub> , CO, CO <sub>2</sub> ).
10.3	Hazardous Polymerization:	Hazardous polymerization will not occur.
10.4	Conditions to Avoid:	High temperatures and incompatible substances.
10.5	Incompatible Substances:	Strong oxidizing agents.



Other Requirements:

NA

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Prepared to OSHA, ACC, ANSI, WHSR, WHMIS, GHS & EU Standards SDS Revision: 1.0 SDS Revision Date: 9/23/2022 11. TOXICOLOGICAL INFORMATION Ingestion: YES Routes of Entry: 11.1 11.2 Toxicity Data: This product has NOT been tested on animals to obtain toxicology data. Toxicology data, found in scientific literature, is available for some of the components of the product, but is not presented in this document. Acute Toxicity: See Section 4.4 11.3 11.4 Chronic Toxicity This material may aggravate any pre-existing skin condition (e.g., dermatitis) 11.5 Suspected Carcinogen: 11.6 Reproductive Toxicity: This product is not reported to cause reproductive toxicity in humans Mutagenicity This product is not reported to cause mutagenic effects in humans. Embryotoxicity: This product is not reported to cause 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. Irritancy of Product: 11.7 The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure. Biological Exposure Indices: 11.8 NA 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION There are no specific data for this product. 12.1 Environmental Stability: 12.2 Effects on Plants & Animals: There are no specific data 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. 13. DISPOSAL CONSIDERATIONS Waste Disposal: Waste disposal must be in accordance with appropriate Federal, state, and local regulations. 13.2 Special Considerations Reclaim product if feasible. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste. 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. 49 CFR (GND): **NOT REGULATED** IATA (AIR): 14.2 **NOT REGULATED** IMDG (OCN): 14.3 **NOT REGULATED** TDGR (Canadian GND): 14.4 NOT REGULATED 14.5 ADR/RID (EU): NOT REGULATED 14.6 SCT (MEXICO): **NOT REGULATED** 14.7 ADGC (AUS): NOT REGULATED 15. REGULATORY INFORMATION SARA Reporting Requirements: This product does not contain any substance 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. CERCLA Reportable Quantity (RQ): NA 15.5 Other Federal Requirements: This product does not contain any substances identified as Hazardous Air Pollutants (HAPs) Other Canadian Regulations: 15.6 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 Class D2B (Other Toxic Effects) 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). This product does not contain any chemicals known to the State of California to cause cancer

or other reproductive harm. For more information go to www.P65Warnings.ca.gov



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		16. OTHER INFORMATION
16.1	Other Information:	WARNING! CAUSES SERIOUS EYE IRRITATION. CAUSES MILD SKIN IRRITATION. Wash hands and exposed skin areas with soap and warm water thoroughly after handling. Wear protective gloves/protective clothing/eye protection. IF ON SKIN: Wash with soap and warm water thoroughly after handling. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 help. KEEP OUT OF REACH OF CHILDREN.
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 & Boat Bling'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:	Boat Bling, Inc. 1725 W Williams Dr, Suite 63 Phoenix, AZ 85027 USA Tel: +1 (800) 846-4899 Fax: +1 (623) 561-8106 https://www.boatbling.net https://www.blingsauce.com
16.5	Prepared by:	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



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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
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.

#### HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

#### **HEALTH, FLAMMABILITY & REACTIVITY RATINGS:**

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



### PERSONAL PROTECTION RATINGS:

Α		
В		
С		
D		
Е		
F		





#### 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

FLAMMABILI	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	FLAMMABILITY
1	Slight Hazard	. =
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	/ <b>\ \</b> \ <b>\</b>
₩	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

#### TOXICOLOGICAL INFORMATION:

LD <sub>50</sub>	Lethal Dose (solids & liquids) which kills 50% of the exposed animals			
LC <sub>50</sub>	Lethal concentration (gases) which kills 50% of the exposed animal			
ppm	Concentration expressed in parts of material per million parts			
TD <sub>Io</sub> Lowest dose to cause a symptom				
TCLo Lowest concentration to cause a symptom				
TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or	TD <sub>Io</sub> , LD <sub>Io</sub> , & LD <sub>o</sub> or Lowest dose (or concentration) to cause lethal or toxic effects			
TC, TCo, LCio, & LCo				
IARC	International Agency for Research on Cancer			
NTP	National Toxicology Program			
RTECS	Registry of Toxic Effects of Chemical Substances			
BCF	Bioconcentration Factor			
TLm	Median threshold limit			
log Kow or log Koc	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	PSL Canadian Priority Substances List			
TSCA	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:

0	<b>(4)</b>	<b>③</b>	(3)	$\odot$	(4)		
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:

	<b>(\$)</b>		$\Diamond$			$\Leftrightarrow$		<b>(</b>
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment