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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 6/21/2018 1. PRODUCT & COMPANY IDENTIFICATION 1.1 Product Name: FUN SEXY PURPLE GLITTER HAIRSPRAY, 54.27% VOC 1.2 Chemical Name: 1.3 Synonyms SW-2469 1 4 Trade Names Fun Sexy Purple Glitter Hairspray, 54.27% VOC 1.5 Product Uses & Restrictions: Aerosol Hair Spray 1.6 Distributor's Name: Shield Packaging of CA, Inc. 1.7 Distributor's Address: 5165 "G" Street, Chino CA 91710 USA 1.8 Emergency Phone: CHEMTREC: +1 (703) 527-3887 / +1 (800) 424-9300 (CCN 20108) Business Phone / Fax: 19 +1 (909) 628-4707 / +1 (909) 591-8916 2. HAZARDS IDENTIFICATION 2 1 Hazard Identification: This product is classified as a HAZARDOUS SUBSTANCE and as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). WARNING! FLAMMABLE AEROSOL. PRESSURIZED CONATINER: MAY BURST IF HEATED. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES EYE IRRITATION. Classification: Aerosol 2; Skin Sens. 1B; Eye Irrit. 2 2.2 Label Elements: Hazard Statements (H): H223 - Flammable aerosol. H229 - Pressurized container: May burst if heated. H317 - May cause an allergic skin reaction. H320 - Causes eye irritation. Precautionary Statements (P): P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on open flame or other ignition P251 - Do not pierce or burn, even after use. P261 - Avoid breathing fume/gas/mist/vapors/spray. P264 – Wash hands and exposed skin areas with soap and warm thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/eyewear. P302+P352 - IF ON SKIN: Wash with plenty warm water and soap. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P305+P351+P338 – IF IN EYES: Rinse cautiously 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. P362+P364 - Take off contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use Water, Foam, CO2, Dry Chemical, Halon (if authorized), to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F). P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). 2.3 Other Warnings: KEEP OUT OF REACH OF CHILDREN. 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA maa ppm ppm ES-ES-ES-STEL CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No.** STEL **TWA** STEL PEAK PEL **IDLH** OTHER KI4100000 200-866-1 30-50 1000 NA NF 75-37-6 1000 NF NA NA NA DIFLUOROETHANE (R-152a) Flam. Gas 1; H220 EJ4200000 203-448-7 30-50 1000 900 800 1900 NA NA 1900 106-97-8 NF **BUTANE** Press. Gas; Flam. Gas 1; H220 KQ6300000 1000 3000 1000 1800 1000 1900 3300 64-17-5 200-578-6 20-40 NF ETHANOL (SD ALCOHOL 40B) Flam.Liq.2; H225 NA VA/CROTONATES/VINYL 28748-38-2 NA 5-10 NA NA NF NF NF NA NA NA NEODECANOATE COPOLYMER ALUMINUM CALCIUM SODIUM 1344-01-0 NA 215-685-3 0.1-1 NA NA NF NF NF NA NA NA SILICATE Skin Irrit. 2; Eye Irrit. 2A; STOT-SE 3; H315, H319, H335 13463-67-7 XR2275000 236-675-5 0.1-1 10 NA NF NF 5 NA 5000 NA RESP CI 77891 (TITANIUM DIOXIDE) 124-68-5 UA5950000 204-709-8 0.1-1 NA NA NF NF NF NA NA NA AMINOMETHYL PROPANOL Eye Irrit. 2; Skin Irrit. 2; Aquatic Chronic 3; H319, H315, H412 2116-84-9 NA 218-320-6 0.1-1 NA NA NF NF NF NA NA NA PHENYI TRIMETHICONE 7732-18-5 ZC0110000 231-791-2 0.1-1 NA NF NF NF NA NA NA NA AQUA (WATER/EAU) NA NA 0.1-1 NA NA NF NF NF NA NA NA NA FRAGRANCE (PARFUM)

NA

NF

NF

NF

NA

NA

NA ALLERGEN

118-58-1

BENZYL SALICYLATE

VO1750000

204-262-9

Skin Sens. 1; Aquatic Chronic 2; H303, H317, H319, H371, H401

0.0-0.1



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PHYSICAL HAZARDS

**EYES** 

PROTECTIVE EQUIPMENT

SKIN

0

В

Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 6/21/2018 SDS Revision: 1.0 3. COMPOSITION & INGREDIENT INFORMATION – cont'd EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm FS. ES-FS-STEL CHEMICAL NAME(S) CAS No. **RTECS No EINECS No.** TLV STEL TWA STEL PEAK PEL **IDLH** OTHER 101-86-0 GD6560000 202-983-3 0-0.1 NA NA NF NF NF NA NA NA ALLERGEN HEXYL CINNAMAL Skin Sens. 1B, Aquatic Chronic 2; H317, H411 78-70-6 NA 201-134-4 0-0.1 NA NA NF NF NF NA NA NA ALLERGEN LINALOOL 91-64-5 NA 202-086-7 0-0.1 NA NA NF NF NF NA NA NA ALLERGEN COUMARIN Acute Tox. Oral 3; Aquatic Acute 3; H301, H402 106-24-1 RG5830000 203-377-1 0-0.1 NA NA NF NF NF NA NA NA ALLERGEN **GERANIOL** Skin Irrit. 2, Skin Sens. 1, Eye Dam. 1; H315, H317, H318 127-51-5 NA 204-846-3 0-0.1 NA NA NF NF NF NA NA NA ALLERGEN ALPHA-ISOMETHYL IONONE RH340000 106-22-9 203-375-0 0.0-0.1 NA NA NF NF NF NA NA NA ALLERGEN CITRONELLOL Skin Irrit. 2, Skin Sens. 1B, Eye Irrit. 2; H315, H317, H319 RG7850000 NA ALLERGEN 107-75-5 203-518-7 0-0.1 NA NA NF NF NF NA NA **HYDROXYCITRONELLAL** Skin Irrit, 2: Eve Irrit, 2A: Skin Sens, 1: H315 H317, H319 18282-10-5 XQ400000 242-159-0 0-0.1 NA NA NF NF NF NA NA NA TIN OXIDE STOT SE 3; H335 77-93-0 NA 201-070-7 0-0.1 NA NA NF NF NF NA NA NA TRIETHYL CITRATE NA 226-775-7 0-0.1 NA NA NF NF 5466-77-3 NF NA NA NA **ETHYLHEXYL** METHOXYCINNAMATE 4. FIRST AID MEASURES 4 1 First Aid: 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. Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm Eyes: water for at least 15 minutes. If irritation occurs, contact a physician. 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. Inhalation: Remove victim to fresh air at once. 4.2 Effects of Exposure: Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and Eyes: watering. May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in Skin: some sensitive individuals. Inhalation: None expected 4.3 Symptoms of Overexposure: Overexposure in eyes may cause redness, itching and watering. Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals. 4.4 Acute Health Effects: Moderate irritation to eyes. No harmful or chronic health effects are expected to occur from a single accidental ingestion. 4.5 Chronic Health Effects: 4.6 Target Organs: Eyes 4.7 **Medical Conditions** Pre-existing dermatitis, other skin conditions, and disorders of the **HEALTH** 1 Aggravated by Exposure: target organs (eyes, skin, and respiratory system). 3 **FLAMMABILITY** 



Body Protection:

8.6

# SAFETY DATA SHEET

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision Date: 6/21/2018 SDS Revision: 1.0 5. FIREFIGHTING MEASURES FLAMMABLE AEROSOL. Level 2 Aerosol (NFPA 30B). Aerosols may burst at temperatures 5.1 Fire & Explosion Hazards: above 120 °F. Cool uninvolved containers to prevent possible bursting. Aerosols may be projectile hazards when bursting. If aerosols are bursting, stay clear until bursting is complete. Containers may rupture and release flammable liquids or/or exposed gases if exposed to the heat of fire. Keep containers cool by spraying them with water until the fire has been extinguished. Keep away from heat, lit cigarettes, sparks & open flame. Keep container closed. When exposed to high temperatures, may produce hazardous decomposition products such as oxides of carbon (e.g., CO, CO<sub>2</sub>) and nitrogen (e.g., NO<sub>x</sub>) and smoke. Extinguishing Methods: 5.2 Water, Foam, CO<sub>2</sub>, Dry Chemical, Halon (if authorized) 5.3 Firefighting Procedures: As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressuredemand) 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 Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective 6.1 Spills: Equipment (PPE). For small spills (e.g., < 1 gallon (3.8 L)) or large spills (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. Use ONLY non-sparking tools for recovery and cleanup. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. 7. HANDLING & STORAGE INFORMATION Do not eat, drink, or smoke while handling this product. 7.1 Work & Hygiene Practices: 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. 7.3 Special Precautions: Spilled material may present a slipping hazard if left unattended. Clean all spills promptly. 8. EXPOSURE CONTROLS & PERSONAL PROTECTION ACGIH NOHSC OSHA OTHER Exposure Limits: ppm (mg/m<sup>3</sup>) STEL ES-TWA ES-PEAK STEL IDLH CHEMICAL NAME(S) ES-STEL PEL DIFLUOROETHANE (R-152a) 1000 NA 1000 NF NF NΑ NA NA ETHANOL (SD ALCOHOL 40B) 1000 3000 1000 1800 NF 1000 1900 3300 BUTANE 1000 900 800 1900 NF NA NA 1900 CI 77891 (TITANIUM DIOXIDE) 10 NA NF NF NA 5000 NA **RESP** 5 BENZYL SALICYLATE NF NF NF ALLERGEN NA NA NA NA NA HEXYL CINNAMAL NA NF NF ALLERGEN NA NF NA NA NA LINALOOL NA NA NF NF NF NA NA NA ALLERGEN COUMARIN NF NA NA NF NF NA NA NA **ALLERGEN GERANIOL** NA NA NF NF NF NA NA NA ALLERGEN ALPHA-ISOMETHYL IONONE NA NA NF NF NF NA NA NA **ALLERGEN** ALLERGEN CITRONELLOL NA NA NF NF NF NA NA NA HYDROXYCITRONELLAL NA NA NF NF NF NA NA NA ALLERGEN 8.2 Ventilation & Engineering 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 that an eyewash station, sink or washbasin is available in case of exposure to eyes 8.3 Respiratory Protection: No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia. Avoid eye contact. Protective eyewear recommended. Wear protective eyewear (e.g., safety 8.4 Eye Protection: glasses with side-shield) at all times when handling large quantities (of 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: None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex 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.

No special body protection is required under typical circumstances of use and handling. necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA.



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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 6/21/2018 9. PHYSICAL & CHEMICAL PROPERTIES 9.1 Appearance: Aerosol. Milky liquid. 92 Odor: Fragrant odor 9.3 Odor Threshold: NA 9.4 pH: 8.36 - 10.09.5 Melting Point/Freezing Point: NA 9.6 Initial Boiling Point/Boiling NA Range: 9.7 Flashpoint: 9 °C (48 °F) 9.8 Upper/Lower Flammability LEL: 5.1% / UEL: 17.1% (R-152A) Limits: 9.9 Vapor Pressure: 70 ± 5 psig @ 70 °F 9.10 Vapor Density: 9.11 Relative Density:  $0.882 \pm 0.012 (7.30 \pm 0.10)$ 9.12 Solubility in Water: Soluble 9.13 Partition Coefficient (log Pow): NA 9.14 Autoignition Temperature: NA 9.15 Decomposition Temperature: NA 9.16 Viscosity: NA 9.17 Other Information: VOC: 54.27%; Percent Solids: 26.5 ± 0.10 10. STABILITY & REACTIVITY 10.1 Stability: This product is stable. Hazardous Decomposition Oxides of carbon (CO, CO<sub>2</sub>) and sulfur (SO<sub>2</sub>). 10.3 Hazardous Polymerization: Will not occur. Conditions to Avoid 10.4 Open flames, sparks and high heat. 10.5 Incompatible Substances None known. 11. TOXICOLOGICAL INFORMATION Routes of Entry: Inhalation: YFS 11.1 Absorption: YFS Ingestion: YES 11.2 Toxicity Data: The product has not been tested for specific toxicity data. 11.3 Acute Toxicity See Section 4.4 11.4 Chronic Toxicity: See Section 4.5 11.5 Suspected Carcinogen: Titanium Dioxide: IARC Group 2B (possible human carcinogen); ACGIH A4 (not classified as a human carcinogen). 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 Reproductive Toxicity: 11.6 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 4.2 Biological Exposure Indices 11.8 ΝE 11.9 Physician Recommendations: Treat symptomatically. 12. ECOLOGICAL INFORMATION There are no specific data available for this product. 12.1 **Environmental Stability** 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. 13. DISPOSAL CONSIDERATIONS 13.1 Waste Disposal: Waste disposal must be in accordance with appropriate Federal, state, and local regulations. Special Considerations: 13.2 U.S. EPA Waste Number: D001 (characteristic - ignitable)



14 6

14.7

SCT (MEXICO):

ADGR (AUS):

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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision: 1.0 SDS Revision Date: 6/21/2018 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): CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1000 mL) - until 12/31/2020 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL) ф<u>ф</u> IATA (AIR): 14.2 CONSUMER COMMODITY, 9, ID8000 (IP VOL ≤ 0.5 L) UN1950, AEROSOLS, FLAMMABLE, 2.1 (IP VOL > 0.5 L) 14.3 IMDG (OCN): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL) 14.4 TDGR (Canadian GND): UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL) or MARK PACKAGE "LIMITED QUANTITY," "LTD QTY," or "QUANT LTÉE" or "QUANTITÉ LIMITÉE" 14.5 ADR/RID (EU):

## 15 REGULATORY INFORMATION

UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL)

UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1000 mL)

UN1950, AEROSOLS, 2.2 (CANTIDAD LIMITADA, IP VOL ≤ 1000 mL)

	15. REGULATORY INFORMATION			
15.1	SARA Reporting Requirements:	This product does not contain any substances subject to SARA Title III, section 313 reporting requirements.		
15.2	SARA Threshold Planning Quantity:	There are no specific Threshold Planning Quantities for the components of this product.		
15.3	TSCA Inventory Status:	The components of this product are listed on the TSCA Inventory.		
15.4	CERCLA Reportable Quantity (RQ):	NA 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 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 B5, D2B (Flammable Aerosol, Other Toxic Effects)		
15.7	State Regulatory Information:	Ethanol is found on the following state criteria lists: 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), California Proposition 65 ((CA65) ethanol in alcoholic beverages) and Washington Permissible Exposures List (WA).  Difluoroethane can be found on the following state criteria lists: MA and NJ.  Aminomethyl Propanol is found on the following state criteria lists. FL, MA and PA.  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:	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 INFOR	RMATION		
16.1	Other Information:	WARNING! FLAMMABLE AEROSOL. PRESSURIZED CONATINER: MAY BURST IF HEATED. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. Use only as directed. Discontinue use if irritation develops. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing fume/gas/mist/vapors/spray. Wash hands and exposed skin areas with soap and warm thoroughly after handling. If skin irritation or rash occurs: Get medical advice/attention. IF ON SKIN: Wash with plenty warm water and soap. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention. In case of fire: Use Water, Foam, CO <sub>2</sub> , Dry Chemical, Halon (if authorized) to extinguish. Store in a well-ventilated place. Keep cool. Use only as directed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F). Discontinue use immediately if irritation develops.  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 & Shield Packaging of CA'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, EXPRESSED OR IMPLIED, ARE PROVIDED INCLUDING THE WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. 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:	Shield Packaging of CA, Inc. 5165 "G" Street Chino CA 91710 USA Tel: +1 (909) 628-4707 Fax: +1 (909) 591-8916 http://www.shieldpackaging.com	S		
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	ShipMate°  Dangerous Goods Training & Consulting		



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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	NOHSC National Occupational Health and Safety Commission (Australia)	
OSHA	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	
stopped receives manual chest compressions and breathing to circulate l	
	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			
C		型	
D		型	
Е			
F			

G				
Н				
ı				
J				
K			A	
X	Consult y	our supe andling di	rvisor or irections.	SOPs for



## OTHER STANDARD ABBREVIATIONS:

Carcinogenic	
Irritant	
Not Available	
No Results	
Not Determined	
Not Established	
IF Not Found	
Self-Contained Breathing Apparatus	
Sens Sensitization	
Specific Target Organ Toxicity – Repeat Exposure	

#### NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

STOT SE Specific Target Organ Toxicity – Single Exposure

FLAMMABILITY LIMITS IN AIR:			
FLAMIMABILI	FLAMIMABILITY LIMITS IN AIR:		
Autoignition	<b>Autoignition</b> Minimum temperature required to initiate combustion in air with no other source		
Temperature	'emperature of ignition		
LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, that v			
	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		
UEL	explode or ignite in the presence of an ignition source  Upper Explosive Limit - highest percent of vapor in air, by volume, that wi		

#### HAZARD RATINGS:

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

#### TOXICOLOGICAL INFORMATION:

	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 Lowest dose (or concentration) to cause lethal or toxic effects	
TC, TC <sub>o</sub> , LC <sub>io</sub> , & LC <sub>o</sub>	
IARC International Agency for Research on Cancer	
NTP	National Toxicology Program
RTECS	Registry of Toxic Effects of Chemical Substances
BCF	Bioconcentration Factor
TL <sub>m</sub>	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	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:

0	<b>*</b>	<b>(2)</b>		$\odot$	(4)		R
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:

			$\Diamond$	Pro-		$\Diamond$		<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment