



SAFETY DATA SHEET

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SW-1912

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

SDS Revision: 1.0

SDS Revision Date: 8/15/2016

1. PRODUCT & COMPANY IDENTIFICATION

| | | |
|-----|------------------------------|--|
| 1.1 | Product Name: | CAVIAR STYLE SEA CHIC VOLUME & TEXTURE FOAM SPRAY, 6% VOC |
| 1.2 | Chemical Name: | Aerosol |
| 1.3 | Synonyms: | SW-1912 |
| 1.4 | Trade Names: | Caviar Style Sea Chic Volume & Texture Foam Spray, 6% VOC |
| 1.5 | Product Uses & Restrictions: | Aerosol Foam 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) |
| 1.9 | Business Phone / Fax: | +1 (909) 628-4707 / +1 (909) 591-8916 |

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: 1088 (2004) and ADG Code (Australia).</p> <p>WARNING! PRESSURIZED CONTAINER MAY BURST IF HEATED. CAUSES EYE IRRITATION.</p> <p><u>Classification:</u> Aerosol 3; Eye Irrit. 2</p> <p><u>Hazard Statements (H):</u> H229 – Pressurized container may burst if heated. H320 – Causes eye irritation.</p> <p><u>Precautionary Statements (P):</u> P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. 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. P410+P412 – Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F).</p> |
|-----|------------------------|--|

3. COMPOSITION & INGREDIENT INFORMATION

| 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 | | | | | | | |
| DIFLUOROETHANE (R-152a) | 75-37-6 | KI4100000 | 200-866-1 | 30-60 | 1000 | NA | 1000 | NF | NF | NA | NA | NA | | |
| | Flam. Gas 1; H220 | | | | | | | | | | | | | |
| WATER (AQUA/EAU) | 7732-18-5 | NA | 231-791-2 | 35-55 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| VP/VA COPOLYMER | 25086-89-9 | NA | NA | 1.0-5.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| ETHANOL (SD ALCOHOL 40B) | 64-17-5 | KQ6300000 | 200-578-6 | 1.0-5.0 | 1000 | 3000 | 1000 | 1800 | NF | 1000 | 1900 | 3300 | | |
| | Flam. Liq. 2; H225 | | | | | | | | | | | | | |
| GLYCERIN | 56-81-5 | MA8050000 | 200-289-5 | 1.0-5.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| SILICA | 7631-86-9 | VV7310000 | NA | 0.5-2.0 | NA | NA | NF | NF | NF | 20 | NA | 3000 | RESP FRAC | |
| | Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335 | | | | | | | | | | | | | |
| PVP | 9003-39-8 | NA | NA | 0.5-2.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| POLYQUATERNIUM-7 | 26590-05-6 | NA | NA | 0.1-1.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| CETRIMONIUM CHLORIDE | 112-02-7 | ML9145000 | 203-928-6 | 0.1-1.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| POLYSORBATE 80 | 9005-65-6 | NA | 500-19-9 | 0.1-1.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| FRAGRANCE (PARFUM) | NA | NA | NA | 0.1-1.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| PANTHENOL | 81-13-0 | NA | 201-327-3 | 0.1-1.0 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| EXTRACTS | NA | NA | NA | 0.1-1.0 | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN | |
| SODIUM BENZOATE | 532-32-1 | DH6650000 | 208-534-8 | 0.0-0.1 | NA | NA | NF | NF | NF | NA | NA | NA | | |



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3. COMPOSITION & INGREDIENT INFORMATION

| CHEMICAL NAME(S) | CAS No. | RTECS No. | EINECS No. | % | EXPOSURE LIMITS IN AIR (mg/m ³) | | | | | | | | | OTHER |
|----------------------|-------------|-----------|------------|---------|---|------|--------|---------|---------|------|------|------|--|-------|
| | | | | | ACGIH | | NOHSC | | | OSHA | | | | |
| | | | | | ppm | | ppm | | | ppm | | | | |
| | | | | | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | | |
| ASCORBIC ACID | 50-81-7 | CI7650000 | 200-066-2 | 0.0-0.1 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| POLYSILICONE-15 | 207574-74-1 | NA | NA | 0.0-0.1 | NA | NA | NF | NF | NF | NA | NA | NA | | |
| SUPEROXIDE DISMUTASE | 9054-89-1 | NA | 232-943-0 | 0.0-0.1 | NA | NA | NF | NF | NF | NA | NA | NA | | |

4. FIRST AID MEASURES

| | | | | | | | | | | | | |
|-----------------------------|--|---|---------------|----------|---------------------|----------|-------------------------|----------|-----------------------------|----------|-------------|-------------|
| 4.1 | First Aid: | <p>Ingestion: If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give water or milk to an unconscious person. Contact the nearest Poison Control Center or local emergency number. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed.</p> <p>Eyes: Splashes are not likely; however, if product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.</p> <p>Skin: If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately.</p> <p>Inhalation: Remove victim to fresh air at once.</p> | | | | | | | | | | |
| 4.2 | Effects of Exposure: | <p>Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea.</p> <p>Eyes: Moderately irritating to the eyes. Symptoms of overexposure may include redness, itching, irritation and watering.</p> <p>Skin: May be irritating to skin. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) in some sensitive individuals.</p> <p>Inhalation: None expected.</p> | | | | | | | | | | |
| 4.3 | Symptoms of Overexposure: | 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. | | | | | | | | | | |
| 4.5 | Chronic Health Effects: | No harmful or chronic health effects are expected to occur from a single accidental ingestion. | | | | | | | | | | |
| 4.6 | Target Organs: | Eyes | | | | | | | | | | |
| 4.7 | Medical Conditions Aggravated by Exposure: | Pre-existing dermatitis, other skin conditions, and disorders of the target organs (eyes, skin, and respiratory system). | | | | | | | | | | |
| | | <table border="1"> <tr> <td>HEALTH</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARDS</td> <td>0</td> </tr> <tr> <td>PROTECTIVE EQUIPMENT</td> <td>B</td> </tr> <tr> <td>EYES</td> <td>SKIN</td> </tr> </table> | HEALTH | 1 | FLAMMABILITY | 0 | PHYSICAL HAZARDS | 0 | PROTECTIVE EQUIPMENT | B | EYES | SKIN |
| HEALTH | 1 | | | | | | | | | | | |
| FLAMMABILITY | 0 | | | | | | | | | | | |
| PHYSICAL HAZARDS | 0 | | | | | | | | | | | |
| PROTECTIVE EQUIPMENT | B | | | | | | | | | | | |
| EYES | SKIN | | | | | | | | | | | |

5. FIREFIGHTING MEASURES

| | | | |
|-----|---------------------------|---|--|
| 5.1 | Fire & Explosion Hazards: | PRESSURIZED CONTAINER MAY BURST IF HEATED. Level 1 Aerosol (NFPA 30B). Aerosols may burst at temperatures 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 ₂) and nitrogen (e.g., NO _x) and smoke. | |
| 5.2 | Extinguishing Methods: | Water, Foam, CO ₂ , Dry Chemical, Halon (if authorized) | |
| 5.3 | Firefighting Procedures: | As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personal. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. | |



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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 (PPE).</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> |
|-----|---------|---|

7. HANDLING & STORAGE INFORMATION

| | | |
|-----|---------------------------|--|
| 7.1 | Work & Hygiene Practices: | Do not eat, drink, or smoke while handling this product. |
| 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

| | | | | | | | | | | | |
|-----|--|---|-------|------|--------|---------|---------|------|------|------|---|
| 8.1 | Exposure Limits: ppm (mg/m ³) | | ACGIH | | NOHSC | | | OSHA | | | OTHER |
| | | CHEMICAL NAME(S) | TLV | STEL | ES-TWA | ES-STEL | ES-PEAK | PEL | STEL | IDLH | |
| | | DIFLUOROETHANE (R-152a) | 1000 | NA | 1000 | NF | NF | NA | NA | NA | |
| | | ETHANOL (SD ALCOHOL 40B) | 1000 | 3000 | 1000 | 1800 | NF | 1000 | 1900 | 3300 | |
| | | SILICA | NA | NA | NF | NF | NF | 20 | NA | 3000 | RESP FRAC |
| | | EXTRACTS | NA | NA | NF | NF | NF | NA | NA | NA | ALLERGEN |
| 8.2 | Ventilation & Engineering Controls: | General mechanical (e.g., fans) or natural ventilation is sufficient when this product is in use. Use local or general exhaust ventilation to effectively remove and prevent buildup of vapors or mist generated from the handling of this product. Ensure 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. | | | | | | | | | |
| 8.4 | Eye Protection: | Avoid eye contact. Protective eyewear recommended. Wear protective eyewear (e.g., safety 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. | | | | | | | | |  |
| 8.6 | Body Protection: | 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. | | | | | | | | | |

9. PHYSICAL & CHEMICAL PROPERTIES

| | | |
|------|--------------------------------------|-----------------------------------|
| 9.1 | Appearance: | Aerosol. White milky liquid |
| 9.2 | Odor: | Fragrant odor |
| 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: | NA |
| 9.8 | Upper/Lower Flammability Limits: | NA |
| 9.9 | Vapor Pressure: | 80 ± 5 psig @ 70 °F |
| 9.10 | Vapor Density: | NA |
| 9.11 | Relative Density: | 1.019 ± 0.012; 8.5 ± 0.010 lb/gal |
| 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: 6% |



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10. STABILITY & REACTIVITY

| | | |
|------|-----------------------------------|--|
| 10.1 | Stability: | This product is stable. |
| 10.2 | Hazardous Decomposition Products: | Oxides of carbon (CO, CO ₂) and sulfur (SO ₂). |
| 10.3 | Hazardous Polymerization: | Will not occur. |
| 10.4 | Conditions to Avoid: | Open flames, sparks and high heat. |
| 10.5 | Incompatible Substances: | None known. |

11. TOXICOLOGICAL INFORMATION

| | | | | |
|------|------------------------------|--|-----------------|----------------|
| 11.1 | Routes of Entry: | Inhalation: YES | Absorption: YES | 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: | The following ingredient is listed on IARC 3 - Group 3 (Not classifiable as to its carcinogenicity to humans): <u>Silica</u> | | |
| 11.6 | Reproductive Toxicity: | This product is not reported to produce reproductive toxicity in humans. | | |
| | Mutagenicity: | This product is not reported to produce mutagenic effects in humans. | | |
| | Embryotoxicity: | This product is not reported to produce embryotoxic effects in humans. | | |
| | Teratogenicity: | This product is not reported to cause teratogenic effects in humans. | | |
| | Reproductive Toxicity: | This product is not reported to cause reproductive effects in humans. | | |
| 11.7 | Irritancy of Product: | See Section 4.3. | | |
| 11.8 | Biological Exposure Indices: | NE | | |
| 11.9 | Physician Recommendations: | Treat symptomatically. | | |

12. ECOLOGICAL INFORMATION

| | | |
|------|------------------------------|---|
| 12.1 | Environmental Stability: | There is no specific data available for this product. |
| 12.2 | Effects on Plants & Animals: | There is no specific data available for this product. |
| 12.3 | Effects on Aquatic Life: | There is no specific data available for this product. |

13. DISPOSAL CONSIDERATIONS

| | | |
|------|-------------------------|--|
| 13.1 | Waste Disposal: | Waste disposal must be in accordance with appropriate Federal, state, and local regulations. |
| 13.2 | Special Considerations: | U.S. EPA Waste Number: D003 (characteristic - reactivity). |

14. TRANSPORTATION INFORMATION

The basic description (ID Number, proper shipping name, hazard class & division, packing group) is shown for each mode of transportation. Additional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.

| | | | |
|------|----------------------|--|--|
| 14.1 | 49 CFR (GND): | CONSUMER COMMODITY, ORM-D (IP VOL ≤ 1.0 L) – until 12/31/20 UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) | |
| 14.2 | IATA (AIR): | ID8000, CONSUMER COMMODITY, 9 (IP VOL ≤ 820 mL) UN1950, AEROSOLS, NON-FLAMMABLE, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) | |
| 14.3 | IMDG (OCN): | UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) | |
| 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): | UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) | |
| 14.6 | SCT (MEXICO): | UN1950, AEROSOLS, 2.2 (CANT. LTDA., IP VOL ≤ 1.0 L) | |
| 14.7 | ADGR (AUS): | UN1950, AEROSOLS, 2.2 (LTD QTY, IP VOL ≤ 1.0 L) | |

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 |



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15. REGULATORY INFORMATION – cont'd

| | | |
|------|-------------------------------|---|
| 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 A, D2B (Compressed Gas, Other Toxic Effects) |
| 15.7 | State Regulatory Information: | <u>Difluoroethane</u> can be found on the following state criteria lists: Massachusetts Hazardous Substances List (MA) and New Jersey Right-to-Know List (NJ). <u>Ethanol</u> is found on the following state criteria list: FL, MA, MN, PA and WA. 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 |



16. OTHER INFORMATION

| | | | |
|------|----------------------|--|--|
| 16.1 | Other Information: | WARNING! PRESSURIZED CONTAINER MAY BURST IF HEATED. CAUSES 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 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 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. Protect from sunlight. Do not expose to temperatures exceeding 50 °C (122 °F). 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 are not guaranteed and NO WARRANTIES OF ANY TYPE, EXPRESSED OR IMPLIED, ARE PROVIDED INCLUDING THE WARRANTIES OF MERCHANTABILITY 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 | |
| 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 |
|---------|----------------------------------|

EXPOSURE LIMITS IN AIR:

| | |
|-------|---|
| ACGIH | American Conference on Governmental Industrial Hygienists |
| C | Ceiling Limit |
| ES | Exposure Standard (Australia) |
| IDLH | Immediately Dangerous to Life and Health |
| OSHA | U.S. Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| STEL | Short-Term Exposure Limit |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

FIRST AID MEASURES:

| | |
|-----|--|
| CPR | Cardiopulmonary resuscitation - method in which a person whose heart has stopped receives manual chest compressions and breathing to circulate blood and provide oxygen to the body. |
|-----|--|

HMIS-III 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 |
| mg/m3 | milligrams per cubic meter |
| NA | Not Available |
| ND | Not Determined |
| NE | Not Established |
| NF | Not Found |
| NR | No Results |
| ppm | parts per million |
| SCBA | Self-Contained Breathing Apparatus |

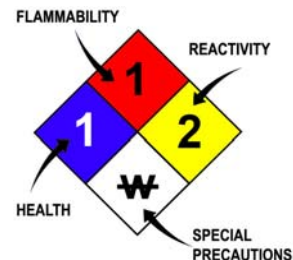
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:

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

HAZARD RATINGS:

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



TOXICOLOGICAL INFORMATION:

| | |
|---|---|
| LD ₅₀ | Lethal Dose (solids & liquids) which kills 50% of the exposed animals |
| LC ₅₀ | Lethal concentration (gases) which kills 50% of the exposed animal |
| ppm | Concentration expressed in parts of material per million parts |
| TD ₁₀ | Lowest dose to cause a symptom |
| TCLo | Lowest concentration to cause a symptom |
| TD ₁₀₁ , LD ₁₀₁ & LD ₅₀ or TC, TC ₀₁ , LC ₁₀₁ , & LC ₅₀ | Lowest dose (or concentration) to cause lethal or toxic effects |
| IARC | International Agency for Research on Cancer |
| NTP | National Toxicology Program |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| BCF | Bioconcentration Factor |
| TL _m | Median threshold limit |
| log K _{ow} or log K _{oc} | Coefficient of Oil/Water Distribution |

REGULATORY INFORMATION:

| | |
|----------|---|
| WHMIS | Canadian Workplace Hazardous Material Information System |
| DOT | U.S. Department of Transportation |
| TC | Transport Canada |
| EPA | U.S. Environmental Protection Agency |
| DSL | Canadian Domestic Substance List |
| NOHSC | National Occupational Health and Safety Commission (Australia) |
| NDSL | Canadian Non-Domestic Substance List |
| PSL | Canadian Priority Substances List |
| TSCA | U.S. Toxic Substance Control Act |
| EU | European Union (European Union Directive 67/548/EEC) |
| WGK | Wassergefährungsklassen (German Water Hazard Class) |
| HMIS-III | National Paint & Coatings Association Hazardous Materials Identification System |

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

| | | | | | | | |
|------------|-----------|-----------|----------|------------|------------|-----------|----------|
| | | | | | | | |
| Class A | Class B | Class C | Class D1 | Class D2 | Class D3 | Class E | Class F |
| Compressed | Flammable | Oxidizing | Toxic | Irritation | Infectious | Corrosive | Reactive |

EC (67/548/EEC) INFORMATION:

| | | | | | | | |
|-----------|-----------|-----------|---------|-----------|-------|----------|---------|
| | | | | | | | |
| C | E | F | N | O | T | Xi | Xn |
| Corrosive | Explosive | Flammable | Harmful | Oxidizing | Toxic | Irritant | Harmful |

CLP/GHS (1272/2008/EC) PICTOGRAMS:

| | | | | | | | | |
|-----------|-----------|----------|-------------|-----------|-------|--------------------|---------------|-------------|
| | | | | | | | | |
| GHS01 | GHS02 | GHS03 | GHS04 | GHS05 | GHS06 | GHS07 | GHS08 | GHS09 |
| Explosive | Flammable | Oxidizer | Pressurized | Corrosive | Toxic | Harmful Irritating | Health Hazard | Environment |