

SAFETY DATA SHEET

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires SDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

SECTION 1. IDENTIFICATION

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| Product Identifier: Crystal Clear Product Use: Graffiti Resistant Coating Manufactured for: Visual Pollution Technologies, Inc. P.O. Box 12833 Scottsdale, AZ 85267-2833 | Product Identification # (PIF): 01090 Emergency Telephone #: 1-800-255-3924 ChemTel General Information #: 480-657-9183 Date Prepared: June 13, 2005 Date Revised: May 6, 2016 |
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SECTION 2. HAZARD(S) IDENTIFICATION

GHS Hazard Codification



Signal Word: WARNING

| Hazard Class | Category | Code | Hazard Statement |
|---|----------|------|---|
| Flammable liquid and vapor | 3 | H226 | Flammable Liquid |
| Harmful if swallowed | 4 | H302 | Acute Oral Toxicity |
| Harmful in contact with skin | 4 | H312 | Acute Dermal Toxicity |
| Causes skin irritation | 2 | H315 | Skin Irritation |
| May cause an allergic skin reaction | 1 | H317 | Skin Sensitization |
| Causes serious eye irritation | 2A | H319 | Eye Irritation |
| Harmful if inhaled | 4 | H332 | Acute Toxicity, Inhalation |
| May cause respiratory irritation | 3 | H335 | STOT: Single Exposure, Respiratory Tract Irritation |
| May cause drowsiness or dizziness | 3 | H336 | STOT, Single Exposure; Narcotic effects |
| Suspected of damaging fertility or the unborn child | 2 | H361 | Reproductive Toxicity |
| May cause damage to organs | 2 | H371 | STOT, Single Exposure |
| Toxic to aquatic life with long-lasting effects | 2 | H411 | Hazardous to the Aquatic Environment, Long-term |

Precautionary Measures:

| Category | Code | Statement |
|------------|---|---|
| Prevention | P201 P202 P210 P233 P240 P241 P242 P243 P260 P264 P270 P271 P272 P273 P280 P281 | 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. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe fumes/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. |
| Response | P301+P312 P330 P303+P361+P353 P352 P312 P322 P333+P313 P321 P362 P304+P340 P312 P305+P351+P338 P337+P313 P309+P31 P370+P378 P391 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash with soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Specific measures: See Section 4 First Aid Measures. If skin irritation or rash occurs: Get medical advice/attention. Specific treatments: See Section 4 First Aid Measures. Take off contaminated clothing and wash before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician. In case of fire: Use Foam, dry chemical, carbon dioxide fire extinguishers, water spray for extinction. Collect spillage. |
| Storage | P403+P233+P235 P405 | Store in a well ventilated place. Keep container tightly closed. Keep Cool. Store locked up. |
| Disposal | P501 | Dispose of contents/container in compliance with all Federal, State/Provincial and local laws and regulations. |

Hazards not otherwise classified: Prolonged/repeated skin contact may cause skin drying (dermatitis). Can be absorbed by skin.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient | Common Name | CAS # | Concentration Range % |
|---|-------------------------|------------|-----------------------|
| Homopolymer of hexamethylene diisocyanate | Non known | 28182-81-2 | 47 - 51 |
| 1-Methoxy 2-Propanol Acetate | Glycol ether PM acetate | 108-65-6 | 38 – 42 |
| Light Aromatic Naphtha | Aromatic 100 | 64742-95-6 | 8 – 12 |

SECTION 4. FIRST AID MEASURES

Eyes: Flush well with water for at least 15 minutes, holding eyelids open. Remove any contact lenses and continue rinsing. Seek medical attention if irritation persists.

Skin or Hair: Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash with soap and water. Launder clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell. If irritation or rash develops, seek medical attention. Contaminated work clothing should not be allowed out of the workplace.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration by way of pocket mask equipped with one-way valve or other proper respiratory device – Do NOT use mouth-to-mouth method if victim inhaled material. Call a physician.

Ingestion: DO NOT INDUCE VOMITING. Call a physician immediately. Rinse out mouth. If professional advice is not available, give two glasses of water to drink. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. The symptoms of chemical pneumonitis may not show up for a few days.

SECTION 5. FIRE-FIGHTING MEASURES

Flammability: Class II Combustible liquid

Flash Point: 108°F (42°C)

Extinguishing Media: Foam, dry chemical, carbon dioxide fire extinguishers. Do not spray water directly on fire. Use water spray to cool containers.

Specific hazards arising from chemical: Vapors are heavier than air and may travel along the ground to an ignition source. Readily ignited by static discharge. Closed containers may explode if exposed to extreme heat.

Hazardous combustion products: Oxides of carbon and nitrogen, hydrogen cyanide, isocyanate, isocyanic acid.

Firefighting protective equipment: Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Sensitivity to static discharge: This product is combustible and readily ignited even by static discharge. Grounding equipment is recommended.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required (Section 8). Keep away from heat/sparks/open flames/hot surfaces – No smoking. Ventilate area. Do not breathe fumes/mists/vapors/sprays. Do not eat, drink or smoke in work areas. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

For Small Spills: Spilled material may be slippery. Avoid release to the environment – collect spillage. Avoid dispersal of material and runoff into soil, waterways, drains and sewers. Vapor-suppressing foam may be used to reduce vapors. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste with non-sparking tools. Wash walking surfaces with water to reduce slipping hazard. Dispose of contaminated absorbent material in accordance with local, state and federal regulations.

For Large Spills: Large spills cannot occur due to packaging.

SECTION 7. HANDLING AND STORAGE

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required (Section 8). Use only outdoors or in a well-ventilated area. Use with adequate ventilation. Do not breathe fumes/mists/vapors/sprays. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Use proper bonding and grounding during product transfer as described in document NFPA 77. Use explosion-proof equipment and non-sparking tools. Take precautionary measures against static discharge. Vapors are heavier than air and may travel along the ground to an ignition source. Avoid release to the environment – collect spillage. Never use welding or cutting torch on or near drum (even empty) because product can ignite explosively. Avoid dust formation. Do not premix with other chemicals. Empty containers may contain residue and can be dangerous. Do not eat, drink or smoke in work areas. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Storage: Keep away from heat, flame, or sunlight – Keep cool. Keep from freezing. Keep container tightly closed when not in use. Store locked up. Store in a well-ventilated place. Protect from physical damage. Store away from strong oxidizing agents, strong acids, strong bases, copper alloys, alcohols, water.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Ingredient | CAS # | OSHA/PEL | ACGIH/TLV | STEL |
|---|------------|-----------------|-----------------|-----------------|
| Homopolymer of hexamethylene diisocyanate | 28182-81-2 | Not established | 0.005 ppm | Not established |
| 1-Methoxy 2-Propanol Acetate | 108-65-6 | Not established | Not established | Not established |
| Light Aromatic Naphtha | 64742-95-6 | 100 ppm | 25 ppm | Not determined |

Engineering Controls: Provide adequate ventilation. Observe occupational exposure limits and keep the risk of exposure to a minimum.

Personal protective equipment:

Eye: Safety glasses with side shields or splash proof goggles. Use a face shield when handling large amounts.

Skin: Chemical resistant (impervious) gloves. Normal materials handling clothing. Boots. Wear apron if handling large amounts.

Respirator: Use NIOSH approved protection with organic vapor cartridge if PEL is exceeded, if vapors are causing irritation, or if mists/spays are generated.

Other: Use only in a well ventilated area. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------------|-------------------------|---|--------------------|
| Appearance | Colorless, clear liquid | Upper/Lower flammability limits | Not determined |
| Odor | Acetate | Vapor pressure | 2.5 mm of Hg |
| Odor threshold | Not determined | Vapor density (Air = 1) | >1 |
| pH | Not applicable | Relative Density (water = 1.0) | 1.035 g/ml |
| Melting point | Not determined | Solubility | Insoluble in water |
| Freezing point | Not determined | Partition coefficient (n-octanol/water) | Not determined |
| Boiling point | Not determined | Auto-ignition temperature | Not determined |
| Flash point | 108°F (42°C) | Decomposition temperature | Not determined |
| Evaporation rate (n-butyl acetate=1) | <1 | Viscosity, #2 Zahn | 19 – 21 seconds |
| Flammability | Class II Combustible | VOC by weight | 50% |

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions. Reacts violently with strong oxidants and strong acids, causing fire and explosion hazards. Attacks many plastics and coatings.

Chemical stability: Stable under normal, ambient temperature and conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Heat, flame and sparks. Keep from freezing. Do not mix with other chemicals

Incompatible materials: Avoid strong oxidizing agents, strong acids, strong bases, copper alloys, alcohols, water.

Hazardous combustion products: Oxides of carbon and nitrogen, hydrogen cyanide, isocyanate, isocyanic acid.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity:

Oral (LD50 Rat): >2000mg/kg

Dermal (LD50 Rat): 2000 mg/kg

Inhalation (LC50 Rat): 0.554 mg/l (4hr - Homopolymer of hexamethylene diisocyanate)

Skin corrosion/irritation: Skin irritant. Symptoms may include skin reddening, swelling and itching. Prolonged/repeated skin exposures can result in dermatitis. Absorption through skin increases exposure.

Serious eye damage/irritation: Serious eye irritant – vapor and liquid. Symptoms may include a burning sensation, tearing, swelling and redness. May cause temporary corneal injury.

Respiratory or skin sensitization: Causes irritation to respiratory tract. Symptoms may include coughing, a burning sensation of nose and throat and difficulty breathing. Vapors harmful – overexposure can cause harm to kidneys, blood, nerves, liver and lungs. May cause an allergic skin reaction.

Germ cell mutagenicity: No data available

Carcinogenicity: NTP/IARC/OSHA Carcinogen: Xylenes #1330-20-7 – IARC Group 3, Cumene #98-82-8 – IARC Group 2B, Toluene #108-88-3 – IARC Group 3.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

STOT-single exposure: Respiratory Tract Irritation. May cause drowsiness or dizziness. May cause damage to organs.

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Ingestion: Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea. The symptoms of chemical pneumonitis may not show up for a few days.

Corrosive to digestive tract. May cause severe pain, burning, vomiting and diarrhea. Lung aspiration may result in chemical pneumonitis, pulmonary edema, damage to lung tissue, and in extreme cases death.

Likely routes of exposure: Eyes, skin and inhalation

Interactive effects: Use of alcoholic beverages enhances acute overexposure effects of harm to kidneys, blood, nerves, liver and lungs. Persons with skin, respiratory, liver or kidney problems should avoid use.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

96h LC-50 (fish): <10 mg/L

96h EC-50 (invertebrates): <10 mg/L

48h LC-50 (algae): <10 mg/L

Persistence and degradability: Not biodegradable.

Bioaccumulative potential: May occur.

Mobility in soil: This material is a mobile liquid. This product floats on water. This product is volatile and may spread in the atmosphere.

Other adverse effects: Toxic to aquatic life with long-lasting effects – Avoid release to the environment. Collect spillage.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Do not dump into sewers, on the ground or into any waterways. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Toxic to aquatic life – avoid release to the environment and collect spillage.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Do not cut, drill, grind or weld on or near the container.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D001 (Ignitable), U239 (Xylenes), U055 (Cumene) and U220 (Toluene) (40 CFR 261.22).

SECTION 14. TRANSPORT INFORMATION

United States DOT:

Container of 119 gallons or less:

Combustible Liquid (49 CFR 173.120(b)(2): This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less for ground transportation. Exception CFR 173.150(f)(2): Combustible liquids. This exception does not apply to transportation by vessel or aircraft.

Container of 120 gallons or more:

UN/ID No.: UN1993

Proper Shipping Name: Flammable Liquids, n.o.s., (Light Aromatic Naphtha, 1-Methoxy 2-Propanol Acetate)

Hazard Class: 3

Packing Group: III

IATA and IMDG:

UN/ID No.: UN1993

Proper Shipping Name: Flammable Liquids, n.o.s., (Light Aromatic Naphtha, 1-Methoxy 2-Propanol Acetate)

Hazard Class: 3

Packing Group: III

Marine Pollutant (IMDG Code): Not listed (49 CFR 172.101).

Toxic to aquatic life with long-lasting effects.

Transportation in bulk (IMDG - Annex II of MARPOL 73/78 and IBC Code): Not offered in bulk for transport overseas.

SECTION 15. REGULATORY INFORMATION

TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

SARA Section 302: The components of this product are either not regulated or regulated, but present in negligible concentrations.

SARA TITLE III Section 311/312:

| | | | |
|--------------------------|-----|-----------------|-----|
| Immediate (Acute) Health | Yes | Fire Hazard | Yes |
| Delayed (Chronic) Health | No | Reactive Hazard | No |

SARA Title 313: This material contains the following chemical components with known CAS numbers subject to reporting requirements (40 CFR 372): Xylenes CAS# 1330-20-7, % by wt. = 0 - 2.5%, Cumene #98-82-8, % by wt. = 0 - 2.5% and Toluene #108-88-3, % by wt. = 0 - 2.5%.

CERCLA: Xylenes CAS# 1330-20-7 has a reportable quantity of 100 lbs., Cumene #98-82-8 has a RQ of 5,000 lbs, and Toluene #108-88-3 has a RQ of 1,000 lbs. at 100% concentration, however, this product is NOT considered a Hazardous Substance since the quantity does not equal or exceed the RQ in one package (49 CFR 171.8, definition of "Hazardous Substance").

United States Right-To-Know: Homopolymer of hexamethylene diisocyanate CAS #28182-81-2 – Massachusetts, New Jersey, Pennsylvania. 1,2,4-Trimethylbenzene #526-73-8 – New Jersey and Pennsylvania. Cumene #98-82-8 – New Jersey and Pennsylvania. Xylene #1330-20-7 – New Jersey and Pennsylvania. Toluene #71-43-2 – New Jersey and Pennsylvania.

Proposition 65: This material contains the following ingredients for which the state of California has found to cause cancer, birth defects or other reproductive harm: Toluene #108-88-3.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D001 (Ignitable), U239 (Xylenes), U055 (Cumene) and U220 (Toluene) (40 CFR 261.22).

SECTION 16. OTHER INFORMATION

Date Prepared: May 6, 2016 – SDS updated to meet revision #5 GHS requirements.

Hazard Ratings (HMIS): Health 2, Flammability 2, Reactivity 0 (Scale 0 – 4). Personal Protection Rating to be supplied by user based on use conditions.

Carefully read all instructions on label before handling this product.

Keep out of reach of children.

"FOR INDUSTRIAL USE ONLY"

| Abbreviation | Full Name/Explanation |
|--------------|---|
| ACGIH | American Conference of Government Industrial Hygienists |
| CAS | Chemical Abstract Service |
| CERCLA | Comprehensive Environmental Response Compensation and Liability Act |
| CNS | Central Nervous System |
| CFR | Code of Federal Regulations |
| DOT | Department of Transportation |
| EC | Effective Concentration |
| HMIS | Hazardous Material Information System |
| LC | Lethal Concentration |
| LD | Lethal Dose |
| NA | Not Applicable |
| ND | Not Determined |
| NE | Not Established |
| NIOSH | National Institute for Occupational Safety and Health |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |

| | |
|------|--|
| RCRA | Resource Conservation Recovery Act |
| SARA | Superfund Amendments and Reauthorization Act |
| STEL | Short-Term Exposure Limit |
| STOT | Specific Target Organ Toxicity |
| TLV | Threshold Limit Value |
| TSCA | Toxic Substance Control Act |
| VOC | Volatile Organic Compounds |

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.

SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.