# SAFETY DATA SHEET

**Issuing Date** 30-Mar-2016 **Revision Date** 30-Mar-2016 **Revision Number** 3



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** **Temporary Hair Color**

Good Mark Temp Hair Color (All Colors)

**Other means of identification**

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Hairspray - aerosol

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Name** GAC (UK) Ltd.

**Supplier Address** 56 Llantarnam Park
Cwmbran, Gwent
NP443AW
United Kingdom

**Supplier Phone Number** Phone:+44 (1633) 861 411
Fax: +44 (1633) 838 306

**Supplier Email (UK)** sales.GAC@volcke-aerosol-connection.com

**Emergency Phone Number (UK)** +44 (1633) 861 411

**Contact Email (US)** info@goodmark-usa.com

**Emergency Phone Number (US)** 954-907-2850

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

| | |
|---|---|
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |

| | |
|---|---|
| Flammable Aerosols | Category 1 |
| Gases under pressure | Compressed gas |

**GHS Label elements, including precautionary statements**

**Emergency Overview**

**Signal word** **Danger**

**Hazard Statements**
Causes serious eye irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness
Extremely flammable aerosol
Contains gas under pressure; may explode if heated

**Appearance** Multiple Colors **Physical state** Liquid spray Aerosol **Odor** Slight

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Pressurized container: Do not pierce or burn, even after use
Do not spray on an open flame or other ignition source
Wear eye/face protection

**Precautionary Statements - Response**
Specific treatment (see supplemental first aid instructions on this label)

**Eyes**
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

**Skin**
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

**Inhalation**
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

**Precautionary Statements - Storage**
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
Protect from sunlight

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**
11.964 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

Very toxic to aquatic life with long lasting effects
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

**Interactions with Other Chemicals**
Use of alcoholic beverages may enhance toxic effects.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% | Trade Secret |
|---|---|---|---|
| Acetone | 67-64-1 | 30 - 60 | * |
| Butane | 106-97-8 | 10 - 30 | * |
| SD Alcohol 40 (190 Proof) | 64-17-5 | 7 - 13 | * |
| Supplier Trade Secret | Trade Secret | 5 - 10 | * |
| Propane | 74-98-6 | 5 - 10 | * |
| Polyvinylcaprolactam | 25189-83-7 | 3 - 7 | * |
| Iron oxide | 1309-37-1 | 1 - 5 | * |
| Benzenesulfonamide, ar-methyl-, polymer with formaldehyde and 1,3,5-triazine-2,4,6-triamine | 39277-28-6 | 1 - 5 | * |
| Zinc oxide | 1314-13-2 | 1 - 5 | * |
| Stearalkonium hectorite | 71011-26-2 | 1 - 5 | * |
| FD&C red No. 40 | 25956-17-6 | 1 - 5 | * |
| Ferric oxide black | 1317-61-9 | 1 - 5 | * |
| Aluminum | 7429-90-5 | 1 - 5 | * |
| Ci 42090 | 68921-42-6 | 0.1 - 1 | * |
| C.I. Pigment Yellow 100 | 12225-21-7 | 0.1 - 1 | * |
| Zinc | 7440-66-6 | 0.1 - 1 | * |
| Copper | 7440-50-8 | 0.1 - 1 | * |
| FD&C yellow No. 6 | 2783-94-0 | 0.1 - 1 | * |
| C.I. Acid blue 9, disodium salt | 3844-45-9 | 0.1 - 1 | * |
| Solvent red 43 | 15086-94-9 | 0.1 - 1 | * |
| C.I. Solvent violet 13 | 81-48-1 | 0.1 - 1 | * |
| Acid red 92 | 18472-87-2 | 0.1 - 1 | * |
| Supplier Trade Secret | Trade Secret | 0.1 - 1 | * |
| 2,2`-(2,5-Thiophenediyl) bis(5-tertiarybutylbenzoxazole) | 7128-64-5 | 0.1 - 1 | * |
| PERFUME/FRAGRANCE | RR-38460-1 | < 0.1 | * |
| Water | 7732-18-5 | < 0.1 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**First aid measures**

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact** In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.

**Ingestion** Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** May cause sensitization in susceptible persons. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**
DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

**Specific hazards arising from the chemical**
Some may burn but none ignite readily. Ruptured cylinders may rocket.

**Uniform Fire Code** Aerosols: Level III
Sensitizer: Liquid

**Explosion Data**
**Sensitivity to Mechanical Impact** Yes.

**Sensitivity to Static Discharge** Yes.

**Protective equipment and precautions for firefighters**
Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Stop leak if you can do it without risk.

**Other Information** Ventilate the area.

**Environmental precautions**

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for containment** If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

**Methods for cleaning up** Do not direct water at spill or source of leak.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use spark-proof tools and explosion-proof equipment. Use only with adequate ventilation and in closed systems. Keep in an area equipped with sprinklers. Do not puncture or incinerate cans. Contents under pressure.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Acetone<br>67-64-1 | STEL = 750 ppm<br>TWA: 500 ppm | TWA: 1000 ppm<br>TWA: 2400 mg/m³ | IDLH: 2500 ppm 10% LEL<br>TWA: 250 ppm |

| | | | |
|---|---|---|---|
| | | (vacated) TWA: 1800 mg/m³<br>(vacated) TWA: 750 ppm<br>(vacated) STEL: 1000 ppm<br>(vacated) STEL: 2400 mg/m³ | TWA: 590 mg/m³ |
| Butane<br>106-97-8 | STEL: 1000 ppm | (vacated) TWA: 800 ppm<br>(vacated) TWA: 1900 mg/m³ | TWA: 800 ppm<br>TWA: 1900 mg/m³ |
| SD Alcohol 40 (190 Proof)<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m³<br>(vacated) TWA: 1000 ppm<br>(vacated) 1900 mg/m³ | IDLH: 3300 ppm 10% LEL<br>TWA: 1000 ppm<br>TWA: 1900 mg/m³ |
| Supplier Trade Secret | STEL: 1000 ppm | N/A | N/A |
| Propane<br>74-98-6 | TWA: 1000 ppm | TWA: 1000 ppm<br>TWA: 1800 mg/m³ | IDLH: 2100 ppm<br>TWA: 1000 ppm<br>TWA: 1800 mg/m³ |
| Iron oxide<br>1309-37-1 | TWA: 5 mg/m³ respirable fraction | TWA: 10 mg/m³ fume<br>TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 10 mg/m³ fume and total dust Iron oxide<br>(vacated) TWA: 5 mg/m³ respirable fraction regulated under Rouge | IDLH: 2500 mg/m³ Fe dust and fume<br>TWA: 5 mg/m³ Fe dust and fume |
| Zinc oxide<br>1314-13-2 | STEL: 10 mg/m³ respirable fraction<br>TWA: 2 mg/m³ respirable fraction | TWA: 5 mg/m³ fume<br>TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 5 mg/m³ fume<br>(vacated) TWA: 10 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction<br>(vacated) STEL: 10 mg/m³ fume | IDLH: 500 mg/m³<br>Ceiling: 15 mg/m³ dust<br>TWA: 5 mg/m³ dust and fume<br>STEL: 10 mg/m³ fume |
| Aluminum<br>7429-90-5 | TWA: 1 mg/m³ respirable fraction | TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction<br>(vacated) TWA: 15 mg/m³ total dust<br>(vacated) TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ Al Aluminum | TWA: 10 mg/m³ total dust<br>TWA: 5 mg/m³ respirable dust |
| Zinc<br>7440-66-6 | STEL: 10 mg/m³ respirable fraction<br>TWA: 2 mg/m³ respirable fraction | TWA: 5 mg/m³ fume<br>TWA: 15 mg/m³ total dust<br>TWA: 5 mg/m³ respirable fraction | IDLH: 500 mg/m³<br>Ceiling: 15 mg/m³ dust<br>TWA: 5 mg/m³ dust and fume<br>STEL: 10 mg/m³ fume |
| Copper<br>7440-50-8 | TWA: 0.2 mg/m³ fume TWA: 1 mg/m³ Cu dust and mist | TWA: 0.1 mg/m³ fume<br>TWA: 1 mg/m³ dust and mist<br>(vacated) TWA: 0.1 mg/m³ Cu dust, fume, mist | IDLH: 100 mg/m³ dust, fume and mist<br>TWA: 1 mg/m³ dust and mist<br>TWA: 0.1 mg/m³ fume |

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health*

**Appropriate engineering controls**

**Engineering Measures** Showers
Eyewash stations
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be

required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid spray, Aerosol | | |
| **Appearance** | Multiple Colors | **Odor** | Slight |
| **Color** | No information available | **Odor Threshold** | No information available |

| Property | Values | Remarks Method |
|---|---|---|
| **pH** | UNKNOWN | None known |
| **Melting / freezing point** | No data available | None known |
| **Boiling point / boiling range** | No data available | None known |
| **Flash Point** | No data available | None known |
| **Evaporation Rate** | No data available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limit in Air** | | |
| **Upper flammability limit** | No data available | |
| **Lower flammability limit** | No data available | |
| **Vapor pressure** | No data available | None known |
| **Vapor density** | No data available | None known |
| **Specific Gravity** | 0.686 | None known |
| **Water Solubility** | Immiscible | None known |
| **Solubility in other solvents** | No data available | None known |
| **Partition coefficient: n-octanol/water** | No data available | None known |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |
| **Explosive properties** | No data available | |
| **Oxidizing properties** | No data available | |

**Other Information**

| | |
|---|---|
| **Softening Point** | No data available |
| **VOC Content (%)** | No data available |
| **Particle Size** | No data available |
| **Particle Size Distribution** | |

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Conditions to avoid**
Heat, flames and sparks. Excessive heat.

**Incompatible materials**
None known based on information supplied.

**Hazardous Decomposition Products**
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation** — Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

**Eye contact** — Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** — Specific test data for the substance or mixture is not available. Prolonged contact may cause redness and irritation.

**Ingestion** — Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Acetone<br>67-64-1 | = 5800 mg/kg ( Rat ) | - | = 50100 mg/m³ ( Rat ) 8 h |
| Butane<br>106-97-8 | - | - | = 658 g/m³ ( Rat ) 4 h |
| SD Alcohol 40 (190 Proof)<br>64-17-5 | = 7060 mg/kg ( Rat ) | - | = 124.7 mg/L ( Rat ) 4 h |
| Supplier Trade Secret | - | - | = 658 mg/L ( Rat ) 4 h |
| Propane<br>74-98-6 | - | - | = 658 mg/L ( Rat ) 4 h |
| Iron oxide<br>1309-37-1 | > 10000 mg/kg ( Rat ) | - | - |
| Zinc oxide<br>1314-13-2 | > 5000 mg/kg ( Rat ) | - | - |
| FD&C red No. 40<br>25956-17-6 | > 10 g/kg ( Rat ) | > 10 g/kg ( Rabbit ) | - |

| | | | |
|---|---|---|---|
| Ferric oxide black<br>1317-61-9 | > 10000 mg/kg ( Rat ) | - | - |
| FD&C yellow No. 6<br>2783-94-0 | > 10 g/kg ( Rat ) | - | - |
| Acid red 92<br>18472-87-2 | = 8400 mg/kg ( Rat ) | - | - |
| 2,2`-(2,5-Thiophenediyl) bis(5-tertiarybutylbenzoxazole)<br>7128-64-5 | > 10 g/kg ( Rat ) | - | - |
| Water<br>7732-18-5 | > 90 mL/kg ( Rat ) | - | - |

**Information on toxicological effects**

**Symptoms** May cause redness and tearing of the eyes. Itching. Rashes. Hives. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** May cause sensitization by skin contact.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. The listed substance(s) has been shown to be carcinogenic in long-term studies only when consumed orally. This is not a relevant route of exposure for this product.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| SD Alcohol 40 (190 Proof)<br>64-17-5 | A3 | Group 1 | Known | X |
| Iron oxide<br>1309-37-1 | | Group 3 | | |
| FD&C yellow No. 6<br>2783-94-0 | | Group 3 | | |
| C.I. Acid blue 9, disodium salt<br>3844-45-9 | | Group 3 | | |
| Solvent red 43<br>15086-94-9 | | Group 3 | | |

***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A1 - Known Human Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 1 - Carcinogenic to Humans*
*Group 3 - Not Classifiable as to Carcinogenicity in Humans*
***NTP (National Toxicology Program)***
*Known - Known Carcinogen*
***OSHA (Occupational Safety and Health Administration of the US Department of Labor)***
*X - Present*

**Reproductive toxicity** No information available.

**STOT - single exposure** Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product.

**STOT - repeated exposure** No information available.

| | |
|---|---|
| **Chronic Toxicity** | No known effect based on information supplied. |
| **Target Organ Effects** | Blood. Central Nervous System (CNS). Eyes. Liver. Reproductive System. Respiratory system. Skin. Gastrointestinal tract (GI). Heart. Lungs. Systemic Toxicity. |
| **Aspiration Hazard** | No information available. |

**Numerical measures of toxicity Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)**
7,673.00 mg/kg
**ATEmix (inhalation-dust/mist)**
69.42 mg/l
**ATEmix (inhalation-vapor)**
847.00 ATEmix

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
Very toxic to aquatic life with long lasting effects.

| Chemical name | Toxicity to Algae | Toxicity to Fish | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|---|---|---|---|
| Acetone 67-64-1 | | 96h LC50: 4.74 - 6.33 mL/L (Oncorhynchus mykiss) 96h LC50: 6210 - 8120 mg/L (Pimephales promelas) 96h LC50: = 8300 mg/L (Lepomis macrochirus) | EC50 = 14500 mg/L 15 min | 48h EC50: 10294 - 17704 mg/L 48h EC50: 12600 - 12700 mg/L |
| SD Alcohol 40 (190 Proof) 64-17-5 | | 96h LC50: 12.0 - 16.0 mL/L (Oncorhynchus mykiss) 96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 13400 - 15100 mg/L (Pimephales promelas) | EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min | 48h LC50: 9268 - 14221 mg/L 48h EC50: = 2 mg/L 24h EC50: = 10800 mg/L |
| Zinc 7440-66-6 | 96h EC50: 0.11 - 0.271 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.09 - 0.125 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: = 3.5 mg/L (Lepomis macrochirus) 96h LC50: = 7.8 mg/L (Cyprinus carpio) 96h LC50: = 0.24 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.59 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.41 mg/L (Oncorhynchus mykiss) 96h LC50: 0.211 - 0.269 mg/L (Pimephales promelas) 96h LC50: = 2.66 mg/L (Pimephales promelas) 96h LC50: = 30 mg/L (Cyprinus carpio) 96h LC50: = 0.45 mg/L (Cyprinus carpio) 96h LC50: 2.16 - 3.05 mg/L (Pimephales promelas) | | 48h EC50: 0.139 - 0.908 mg/L |
| Copper 7440-50-8 | 96h EC50: 0.031 - 0.054 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 0.0426 - 0.0535 mg/L (Pseudokirchneriella subcapitata) | 96h LC50: 0.0068 - 0.0156 mg/L (Pimephales promelas) 96h LC50: = 1.25 mg/L (Lepomis macrochirus) 96h LC50: = 0.052 mg/L (Oncorhynchus mykiss) 96h LC50: = 0.2 mg/L (Pimephales promelas) 96h LC50: < 0.3 mg/L (Pimephales promelas) 96h LC50: = 0.112 mg/L (Poecilia reticulata) 96h LC50: = 0.3 mg/L (Cyprinus carpio) 96h LC50: = 0.8 mg/L (Cyprinus carpio) | | 48h EC50: = 0.03 mg/L |

**Persistence and Degradability**
No information available.

**Bioaccumulation**

| Chemical name | Log Pow |
|---|---|
| Acetone 67-64-1 | -0.24 |
| Butane | 2.89 |

| | |
|---|---|
| 106-97-8 | |
| SD Alcohol 40 (190 Proof)<br>64-17-5 | -0.32 |
| Supplier Trade Secret | 2.88 |
| Propane<br>74-98-6 | 2.3 |

**Other adverse effects**
No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

**US EPA Waste Number** D001

**California Hazardous Waste Codes** 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name | California Hazardous Waste |
|---|---|
| Acetone<br>67-64-1 | Ignitable |
| SD Alcohol 40 (190 Proof)<br>64-17-5 | Toxic<br>Ignitable |
| Zinc oxide<br>1314-13-2 | Toxic |
| Aluminum<br>7429-90-5 | Ignitable powder |
| Zinc<br>7440-66-6 | Ignitable powder Toxic |
| Copper<br>7440-50-8 | Toxic |

## 14. TRANSPORT INFORMATION

**DOT**

| | |
|---|---|
| **Proper Shipping Name** | CONSUMER COMMODITY |
| **Hazard Class** | ORM-D |
| **Description** | CONSUMER COMMODITY, ORM-D |
| **Emergency Response Guide Number** | 126 |

**TDG**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS |
| **Hazard Class** | 2.1 |
| **Description** | UN1950, AEROSOLS, 2.1 |

**MEX**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS |
| **Hazard Class** | 2.1 |
| **Description** | UN1950 AEROSOLS, 2.1 |

**ICAO**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS |
| **Hazard Class** | 2.1 |
| **Description** | UN1950, AEROSOLS, 2.1 |

**IATA**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS, FLAMMABLE |
| **Hazard Class** | 2.1 |
| **Description** | UN1950, AEROSOLS, FLAMMABLE, 2.1 |

**IMDG/IMO**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS |
| **Hazard Class** | 2.1 |
| **EmS-No.** | F-D, S-U |
| **Marine Pollutant** | Product is a marine pollutant according to the criteria set by IMDG/IMO |
| **Description** | UN1950, AEROSOLS, 2.1 |

**RID**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS |
| **Hazard Class** | 2.1 |
| **Classification code** | 5F |
| **Description** | UN1950 AEROSOLS, 2.1 |

**ADR**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS |
| **Hazard Class** | 2.1 |
| **Classification code** | 5F |
| **Description** | UN1950 AEROSOLS, 2.1 |

**ADN**

| | |
|---|---|
| **UN-No.** | UN1950 |
| **Proper Shipping Name** | AEROSOLS |
| **Hazard Class** | 2.1 |
| **Classification code** | 5F |
| **Special Provisions** | 190, 327, 344, 625 |
| **Description** | UN1950 AEROSOLS, 2.1 |
| **Hazard Labels** | 2.1 |
| **Limited Quantity** | 1 L |
| **Ventilation** | VE01, VE04 |

## 15. REGULATORY INFORMATION

**International Inventories**

| | |
|---|---|
| TSCA | Complies |
| DSL | All components are listed either on the DSL or NDSL. |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|---|---|---|---|
| Zinc oxide - 1314-13-2 | 1314-13-2 | 1 - 5 | 1.0 |
| Aluminum - 7429-90-5 | 7429-90-5 | 1 - 5 | 1.0 |
| Zinc - 7440-66-6 | 7440-66-6 | 0.1 - 1 | 1.0 |
| Copper - 7440-50-8 | 7440-50-8 | 0.1 - 1 | 1.0 |

### SARA 311/312 Hazard Categories

| | |
|---|---|
| **Acute Health Hazard** | Yes |
| **Chronic Health Hazard** | No |
| **Fire Hazard** | Yes |
| **Sudden release of pressure hazard** | Yes |
| **Reactive Hazard** | No |

### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Zinc oxide 1314-13-2 | | X | | |
| Zinc 7440-66-6 | | X | X | |
| Copper 7440-50-8 | | X | X | |

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|---|---|---|---|
| Acetone 67-64-1 | 5000 lb | | RQ= 2270 kg final RQ<br>RQ= 5000 lb final RQ |
| Zinc 7440-66-6 | 1000 lb | | RQ 454 kg final RQ<br>RQ 1000 lb final RQ |
| Copper 7440-50-8 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

## US State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals. The listed substance(s) is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

| Chemical name | California Proposition 65 |
|---|---|
| SD Alcohol 40 (190 Proof) - 64-17-5 | Developmental |

### U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|---|---|---|---|---|---|
| Acetone 67-64-1 | X | X | X | X | |
| Butane 106-97-8 | X | X | X | | |
| SD Alcohol 40 (190 Proof) | X | X | X | | X |

| | | | | | |
|---|---|---|---|---|---|
| 64-17-5 | | | | | |
| Supplier Trade Secret | X | X | X | | |
| Propane<br>74-98-6 | X | X | X | | |
| Iron oxide<br>1309-37-1 | X | X | X | | |
| Zinc oxide<br>1314-13-2 | X | X | X | X | |
| Supplier Trade Secret | X | X | | | |
| Aluminum<br>7429-90-5 | X | X | X | X | |
| Copper<br>7440-50-8 | X | X | X | X | X |
| Zinc<br>7440-66-6 | X | X | X | X | |
| C.I. Acid blue 9, disodium salt<br>3844-45-9 | | X | | | |

## International Regulations

### Mexico
**National occupational exposure limits**

| Chemical name | Carcinogen Status | Exposure Limits |
|---|---|---|
| Acetone | | Mexico: TWA= 1000 ppm<br>Mexico: TWA= 2400 mg/m³<br>Mexico: STEL= 1260 ppm<br>Mexico: STEL= 3000 mg/m³ |
| Butane | | Mexico: TWA 800 ppm<br>Mexico: TWA 1900 mg/m³ |
| SD Alcohol 40 (190 Proof) | | Mexico: TWA 1000 ppm<br>Mexico: TWA 1900 mg/m³ |
| Iron oxide | | Mexico: TWA 5 mg/m³<br>Mexico: STEL 10 mg/m³ |
| Zinc oxide | | Mexico: TWA 5 mg/m³<br>Mexico: TWA 10 mg/m³<br>Mexico: STEL 10 mg/m³ |
| Aluminum | | Mexico: TWA= 10 mg/m³ |
| Copper | | Mexico: TWA= 1 mg/m³<br>Mexico: TWA= 0.2 mg/m³<br>Mexico: STEL= 2 mg/m³ |

*Mexico - Occupational Exposure Limits - Carcinogens*

### Canada
**WHMIS Hazard Class**
Not determined

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** 2 | **Flammability** 4 | **Instability** 0 | **Physical and Chemical Hazards** - |
| **HMIS** | **Health Hazards** 2 | **Flammability** 4 | **Physical Hazard** 0 | **Personal Protection** X |

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**Disclaimer**

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**End of Safety Data Sheet**