# SAFETY DATA SHEET

**STAN-TONE VCP-35340 ORANGE**

## Section 1. Identification

| | | |
|---|---|---|
| **GHS product identifier** | : | STAN-TONE VCP-35340 ORANGE |
| **Chemical name** | : | Mixture |
| **CAS number** | : | Mixture |
| **Other means of identification** | : | FO20034447 |
| **Product type** | : | solid |

**Relevant identified uses of the substance or mixture and uses advised against**

| | | |
|---|---|---|
| **Product use** | : | Industrial applications. Plastics. |
| **Supplier's details** | : | **POLYONE CORPORATION**<br>33587 Walker Road, Avon Lake, OH 44012<br><br>1 (440) 930-1000 or 1 (866) POLYONE |
| **Emergency telephone number (with hours of operation)** | : | **CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).**CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident). |

## Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure.After handling, always wash hands thoroughly with soap and water.

| | | |
|---|---|---|
| **OSHA/HCS status** | : | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| **Classification of the substance or mixture** | : | COMBUSTIBLE DUSTS<br>CARCINOGENICITY - Category 1A |

**GHS label elements**

**Hazard pictograms** :

**Signal word** : Danger
**Hazard statements** : May form combustible dust concentrations in air.
May cause cancer.

**Precautionary statements**

**General** : Not applicable.
**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
**Response** : IF exposed or concerned: Get medical attention.
**Storage** : Store in a well-ventilated place.
**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
**Supplemental label elements** : Keep container tightly closed.
**Hazards not otherwise classified** : Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture
**Chemical name** : Mixture
**Other means of identification** : FO20034447

**CAS number/other identifiers**

| Ingredient name | % | CAS number |
|---|---|---|
| Lead chromate | 30 - 60 | 7758-97-6 |
| Molybdate orange (Lead chromate pigment) | 10 - 30 | 12656-85-8 |
| Lead sulfate | 1 - 5 | 7446-14-2 |

| | | |
|---|---|---|
| Miscellaneous Cadmium Compounds | 0.1 - 1 | Not available. |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

**Description of necessary first aid measures**

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

**Potential acute health effects**

| | | |
|---|---|---|
| **Eye contact** | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. |
| **Inhalation** | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. |
| **Skin contact** | : | No known significant effects or critical hazards. |
| **Ingestion** | : | No known significant effects or critical hazards. |

**Over-exposure signs/symptoms**

| | | |
|---|---|---|
| **Eye contact** | : | Adverse symptoms may include the following:<br>irritation<br>redness |
| **Inhalation** | : | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| **Skin contact** | : | No specific data. |
| **Ingestion** | : | No specific data. |

**Indication of immediate medical attention and special treatment needed, if necessary**

| | | |
|---|---|---|
| **Notes to physician** | : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| **Specific treatments** | : | No specific treatment. |
| **Protection of first-aiders** | : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

**Extinguishing media**

| | | |
|---|---|---|
| **Suitable extinguishing media** | : | Use dry chemical powder. |
| **Unsuitable extinguishing media** | : | Do not use water jet. |
| **Specific hazards arising from the chemical** | : | Fine dust clouds may form explosive mixtures with air. |

| | | |
|---|---|---|
| **Hazardous thermal decomposition products** | : | May emit Hydrogen Chloride (HCl).<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>sulfur oxides<br>halogenated compounds<br>metal oxide/oxides |
| **Special protective actions for fire-fighters** | : | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| **Special protective equipment for fire-fighters** | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

## Section 6. Accidental release measures

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

| | | |
|---|---|---|
| **For non-emergency personnel** | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| **For emergency responders** | : | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| **Environmental precautions** | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

**Methods and materials for containment and cleaning up**

| | | |
|---|---|---|
| **Small spill** | : | Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| **Large spill** | : | Move containers from spill area. Use spark-proof tools and explosion- |

proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

**Precautions for safe handling**

| | | |
|---|---|---|
| **Protective measures** | : | Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. |
| **Advice on general occupational hygiene** | : | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| **Conditions for safe storage, including any incompatibilities** | : | Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental |

contamination.

# Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

| Ingredient name | Exposure limits |
|---|---|
| Lead chromate | **ACGIH TLV (2012-03-05) Calculated as Cr**<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.012 mg/m3<br>**ACGIH TLV (1994-09-01) Calculated as Pb**<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.05 mg/m3<br>**OSHA PEL (2006-11-27) Calculated as Cr**<br>PEL: Permissible Exposure Level 0.005 mg/m3<br>**OSHA PEL Z2 (2006-11-27)**<br>Ceiling 0.001 mg/m3<br>**NIOSH REL (2010-09-01) Calculated as Cr**<br>Time Weighted Average (TWA) 0.0002 mg/m3<br>**OSHA PEL 1989 (1989-03-01) Calculated as CrO3**<br>Ceiling 0.1 mg/m3<br>**OSHA PEL 1989 (1989-03-01) Calculated as Pb**<br>PEL: Permissible Exposure Level 0.075 mg/m3 |
| Molybdate orange (Lead chromate pigment) | **OSHA PEL (1993-06-30) Calculated as Mo**<br>PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust<br>**OSHA PEL (2006-11-27) Calculated as Cr**<br>PEL: Permissible Exposure Level 0.005 mg/m3<br>**OSHA PEL Z2 (2006-11-27)**<br>Ceiling 0.001 mg/m3<br>**NIOSH REL (2010-09-01) Calculated as Cr**<br>Time Weighted Average (TWA) 0.0002 mg/m3<br>**Time Weighted Average (TWA)** 0.5 mg/m3<br>**OSHA PEL 1989 (1989-03-01) Calculated as CrO3**<br>Ceiling 0.1 mg/m3<br>**OSHA PEL 1989 (1989-03-01) Calculated as Pb**<br>PEL: Permissible Exposure Level 0.075 mg/m3<br>**OSHA PEL 1989 (1989-03-01) Calculated as Mo**<br>PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust<br>**OSHA PEL 1989 (1989-03-01) Calculated as Cr**<br>PEL: Permissible Exposure Level 0.5 mg/m3<br>**ACGIH TLV (1995-05-23) Calculated as Pb** |

| | |
|---|---|
| | TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.05 mg/m3<br>**ACGIH TLV (2001-02-22) Calculated as Mo**<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3 Form: Inhalable fraction<br>**TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level** 3 mg/m3 Form: Respirable fraction |
| Lead sulfate | **OSHA PEL 1989 (1989-03-01) Calculated as Pb**<br>PEL: Permissible Exposure Level 0.075 mg/m3<br>**ACGIH TLV (1995-05-23) Calculated as Pb**<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.05 mg/m3 |
| Miscellaneous Cadmium Compounds | **NIOSH REL (1994-06-01) Calculated as Cd**<br>Form: Fume<br>**ACGIH TLV (1994-09-01) Calculated as Cd**<br>TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.01 mg/m3 Form: Inhalable fraction<br>**TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level** 0.002 mg/m3 Form: Respirable fraction |

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used

when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

**Skin protection**

| | | |
|---|---|---|
| **Hand protection** | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| **Body protection** | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| **Other skin protection** | : | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| **Respiratory protection** | : | Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |

# Section 9. Physical and chemical properties

**Appearance**

| | | |
|---|---|---|
| **Physical state** | : | solid [Powder.] |
| **Color** | : | ORANGE |
| **Odor** | : | Not available. |
| **Odor threshold** | : | Not available. |
| **pH** | : | Not available. |
| **Melting point** | : | Not available. |
| **Boiling point** | : | Not available. |
| **Flash point** | : | Not available. |
| **Burning time** | : | Not available. |
| **Burning rate** | : | Not available. |

| | | |
|---|---|---|
| **Evaporation rate** | : | Not available. |
| **Flammability (solid, gas)** | : | Not available. |
| **Lower and upper explosive (flammable) limits** | : | **Lower:** Not available.<br>**Upper:** Not available. |
| **Vapor pressure** | : | Not available. |
| **Vapor density** | : | Not available. |
| **Relative density** | : | Not available. |
| **Solubility** | : | Not available. |
| **Solubility in water** | : | Not available. |
| **Partition coefficient: n-octanol/water** | : | Not available. |
| **Auto-ignition temperature** | : | Not available. |
| **Decomposition temperature** | : | Not available. |
| **SADT** | : | Not available. |
| **Viscosity** | : | **Dynamic:** Not available.<br>**Kinematic:** Not available. |

# Section 10. Stability and reactivity

| | | |
|---|---|---|
| **Reactivity** | : | No specific test data related to reactivity available for this product or its ingredients. |
| **Chemical stability** | : | Stable under recommended storage and handling conditions (see Section 7). |
| **Possibility of hazardous reactions** | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| **Conditions to avoid** | : | Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation. |
| **Incompatible materials** | : | Avoid contact with acetal homopolymers and acetyl homopolymers during processing.<br>Reactive or incompatible with the following materials:<br>oxidizing materials |
| **Hazardous decomposition products** | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

**Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Miscellaneous Cadmium Compounds | | | | |
| | LD50 Oral | Rat | 72 mg/kg | - |

**Conclusion/Summary** : Mixture.Not fully tested.

**Irritation/Corrosion**

**Conclusion/Summary**
**Skin** : Mixture.Not fully tested.
**Eyes** : Mixture.Not fully tested.
**Respiratory** : Mixture.Not fully tested.

**Sensitization**

**Conclusion/Summary**
**Skin** : Mixture.Not fully tested.
**Respiratory** : Mixture.Not fully tested.

**Mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| Lead chromate | + | 1 | Known to be a human carcinogen.Reasonably anticipated to be a human carcinogen. |
| Molybdate orange (Lead chromate pigment) | + | 1 | |
| Lead sulfate | | 2A | |
| Miscellaneous Cadmium Compounds | + | 1 | |

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Teratogenicity**

| | | |
|---|---|---|
| **Conclusion/Summary** | : | Mixture.Not fully tested. |

**Specific target organ toxicity (single exposure)**
Not available.

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**
Not available.

| | | |
|---|---|---|
| **Information on the likely routes of exposure** | : | Not available. |

**Potential acute health effects**

| | | |
|---|---|---|
| **Eye contact** | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. |
| **Inhalation** | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. |
| **Skin contact** | : | No known significant effects or critical hazards. |
| **Ingestion** | : | No known significant effects or critical hazards. |

**Symptoms related to the physical, chemical and toxicological characteristics**

| | | |
|---|---|---|
| **Eye contact** | : | Adverse symptoms may include the following:<br>irritation<br>redness |
| **Inhalation** | : | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| **Skin contact** | : | No specific data. |
| **Ingestion** | : | No specific data. |

**Delayed and immediate effects and also chronic effects from short and long term exposure**

**Short term exposure**

| | | |
|---|---|---|
| **Potential immediate effects** | : | Not available. |
| **Potential delayed effects** | : | Not available. |

**Long term exposure**

| | | |
|---|---|---|
| **Potential immediate effects** | : | Not available. |
| **Potential delayed effects** | : | Not available. |

**Potential chronic health effects**

| | | |
|---|---|---|
| **Conclusion/Summary** | : | Mixture.Not fully tested. |
| **General** | : | Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. |
| **Carcinogenicity** | : | May cause cancer. Risk of cancer depends on duration and level of exposure. |
| **Mutagenicity** | : | No known significant effects or critical hazards. |
| **Teratogenicity** | : | No known significant effects or critical hazards. |
| **Developmental effects** | : | No known significant effects or critical hazards. |
| **Fertility effects** | : | No known significant effects or critical hazards. |

**Numerical measures of toxicity**

**Acute toxicity estimates**

Not available.

# Section 12. Ecological information

**Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Lead sulfate | | | |
| | Acute LC50 148 mg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 750 µg/l Marine water | Fish - Red Tongue Sole | 96 h |
| | Acute LC50 60,800 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 6,240 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 148,000 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 0.392 mg/l Fresh water | Aquatic invertebrates. Water flea | 48 h |
| | Acute IC50 82 µg/l Fresh water | Aquatic invertebrates. Water flea | 48 h |
| | Acute IC50 360 µg/l Fresh water | Aquatic invertebrates. Water flea | 48 h |
| | Acute IC50 400 µg/l Fresh water | Aquatic invertebrates. Water flea | 48 h |
| | Acute LC50 395 µg/l Fresh water | Aquatic invertebrates. | 48 h |

| | | | |
|---|---|---|---|
| | | Water flea | |
| Miscellaneous Cadmium Compounds | | | |
| | Acute LC50 9,350 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 10,470 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 9,920 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 7,029 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 177 µg/l Fresh water | Fish - Fathead minnow | 96 h |
| | Acute LC50 3,280 µg/l Fresh water | Aquatic invertebrates. Water flea | 48 h |
| | Acute LC50 0.0054 µg/l Fresh water | Aquatic invertebrates. Water flea | 48 h |

**Conclusion/Summary** : Not available.

**Persistence and degradability**

**Conclusion/Summary** : Not available.

**Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|---|---|---|---|
| Molybdate orange (Lead chromate pigment) | | 3,600.00 | high |
| Miscellaneous Cadmium Compounds | | 1,345.00 | high |

**Mobility in soil**

**Soil/water partition coefficient (KOC)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**United States - RCRA Acute hazardous waste "P" List:** Not listed

**United States - RCRA Toxic hazardous waste "U" List:** Not listed

## Section 14. Transport information

| | | |
|---|---|---|
| U.S. DOT Classification | : | Not regulated for transportation. |
| ICAO/IATA | : | Consult mode specific transport rules |
| IMO/IMDG (maritime) | : | Consult mode specific transport rules |

## Section 15. Regulatory information

**U.S. Federal regulations** :

**United States - TSCA 12(b) - Chemical export notification:** None of the components are listed.
**United States - TSCA 4(a) - Final Test Rules:** Not listed
**United States - TSCA 4(a) - ITC Priority list:** Not listed
**United States - TSCA 4(a) - Proposed test rules:** Not listed
**United States - TSCA 4(f) - Priority risk review:** Not listed
**United States - TSCA 5(a)2 - Final significant new use rules:** Not listed
**United States - TSCA 5(a)2 - Proposed significant new use rules:** Listed **Lead chromate**
**Molybdate orange (Lead chromate pigment)**
**Lead sulfate**

**United States - TSCA 5(e) - Substances consent order:** Not listed
**United States - TSCA 6 - Final risk management:** Listed **Lead chromate**
**Molybdate orange (Lead chromate pigment)**

**United States - TSCA 6 - Proposed risk management:** Not listed
**United States - TSCA 8(a) - Chemical risk rules:** Not listed
**United States - TSCA 8(a) - Dioxin/Furane precusor:** Not listed
**United States - TSCA 8(a) - Chemical Data Reporting (CDR):** Not determined

**United States - TSCA 8(a) - Preliminary assessment report (PAIR):** Not listed
**United States - TSCA 8(c) - Significant adverse reaction (SAR):** Not listed
**United States - TSCA 8(d) - Health and safety studies:** Not listed
**United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Listed **Lead chromate**
**Molybdate orange (Lead chromate pigment)**
**Lead sulfate**
**Miscellaneous Cadmium Compounds**
**Phenol**
**Vinyl chloride monomer**

**United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Listed
**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances:** Not listed
**United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances:** Not listed
**United States - Department of commerce - Precursor chemical:** Not listed

| | | |
|---|---|---|
| **Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** | : | Listed |
| **Clean Air Act Section 602 Class I Substances** | : | Not listed |
| **Clean Air Act Section 602 Class II Substances** | : | Not listed |
| **DEA List I Chemicals (Precursor Chemicals)** | : | Not listed |
| **DEA List II Chemicals (Essential Chemicals)** | : | Not listed |

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

| Chemical Name | CAS-No. | RQ for component |
|---|---|---|
| Lead sulfate | 7446-14-2 | 10 lb(s)<br>4.54 kg |

**SARA 311/312**

| | | |
|---|---|---|
| **Classification** | : | Fire hazard<br>Delayed (chronic) health hazard |

**Composition/information on ingredients**

| Name | % | Classification |
|---|---|---|
| **Lead chromate** | 30 - 60 | CH |
| **Molybdate orange (Lead chromate pigment)** | 10 - 30 | CH |
| **Lead sulfate** | 1 - 5 | F, CH |
| **Miscellaneous Cadmium Compounds** | 0.1 - 1 | AH, CH |

**SARA 313**

| | Product name | CAS number | % |
|---|---|---|---|
| **Form R - Reporting requirements** | Lead chromate | 7758-97-6 | 30 - 60 |
| | Molybdate orange (Lead chromate pigment) | 12656-85-8 | 10 - 30 |
| | Lead sulfate | 7446-14-2 | 1 - 5 |
| | Miscellaneous Cadmium Compounds | | 0.1 - 1 |
| **Supplier notification** | Lead chromate | 7758-97-6 | 30 - 60 |
| | Molybdate orange (Lead chromate pigment) | 12656-85-8 | 10 - 30 |
| | Lead sulfate | 7446-14-2 | 1 - 5 |
| | Miscellaneous Cadmium Compounds | | 0.1 - 1 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

**Massachusetts** : The following components are listed:
Lead chromate
Lead sulfate

**New York** : The following components are listed:
Lead sulfate
Miscellaneous Cadmium Compounds

**New Jersey** : The following components are listed:
Lead chromate

Ethene, chloro-, homopolymer
Molybdate orange (Lead chromate pigment)
Lead sulfate
Miscellaneous Cadmium Compounds

**Pennsylvania** : The following components are listed:
Lead chromate

Molybdate orange (Lead chromate pigment)

Lead sulfate

Miscellaneous Cadmium Compounds

**California Prop. 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**United States inventory (TSCA 8b)** : All components are listed or exempted.

**Canada inventory** : All components are listed or exempted.

**International regulations**

**International lists** : **Australia inventory (AICS):** Not determined.
**Taiwan inventory (CSNN):** Not determined.
**Malaysia Inventory (EHS Register):** Not determined.
**EINECS:** Not determined.
**Japan inventory:** Not determined.
**China inventory (IECSC):** Not determined.
**Korea inventory:** Not determined.
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.
**Philippines inventory (PICCS):** Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## Section 16. Other information

**History**

**Date of printing** : 05/06/2015
**Date of issue/Date of revision** : 05/04/2015

| | | |
|---|---|---|
| **Date of previous issue** | : | 04/30/2015 |
| **Version** | : | 1.2 |
| **Key to abbreviations** | : | ATE = Acute Toxicity Estimate<br>BCF = Bioconcentration Factor<br>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br>IATA = International Air Transport Association<br>IBC = Intermediate Bulk Container<br>IMDG = International Maritime Dangerous Goods<br>LogPow = logarithm of the octanol/water partition coefficient<br>MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br>UN = United Nations |
| **References** | : | Not available. |

**Notice to reader**

**To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.**