

SAFETY DATA SHEET

ML-6538 ORANGE R6034

Version Number 1.2
Revision Date 12/31/2018

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ML-6538 ORANGE R6034

Section 1. Identification

GHS product identifier : ML-6538 ORANGE R6034
Chemical name : Mixture
CAS number : Mixture
Other means of identification : CC01064292
Product type : liquid

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

Product use : Industrial applications. Plastics.

Supplier's details : **Mesa Industries**
230 N 48th Avenue Phoenix, AZ 85043

(602) 269-3199

Emergency telephone number (with hours of operation) : 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. 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 : CARCINOGENICITY - Category 1A

GHS label elements

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Hazard pictograms : 

Signal word : Danger

Hazard statements : 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. Wear protective gloves. Wear eye or face protection. Wear protective clothing.

Response : IF exposed or concerned: Get medical attention.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : None known.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name : Mixture

Other means of identification : CC01064292

CAS number/other identifiers

Ingredient name	%	CAS number
Chrome yellow (Lead chromate pigment)	25 - 50	1344-37-2
Titanium dioxide	5 - 10	13463-67-7
Molybdate orange (Lead chromate pigment)	3 - 5	12656-85-8
Lead sulfate	3 - 5	7446-14-2



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Lead chromate	3 - 5	7758-97-6
Antimony trioxide	3 - 5	1309-64-4

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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



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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** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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. Firefighting measures

Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.



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- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 nitrogen oxides
 sulfur oxides
 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.
- 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized 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** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or



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diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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 vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. 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
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<p>Chrome yellow (Lead chromate pigment)</p>	<p>OSHA PEL (2006-11-27) TWA 0.005 mg/m3 (as Cr) NIOSH REL (2010-09-01) TWA 0.0002 mg/m3 (as Cr) OSHA PEL 1989 (1989-03-01) TWA 0.05 mg/m3 (calculated as Pb) ACGIH TLV (1995-05-23) Biological exposure index or indices recommended for substance listed TWA 0.05 mg/m3 (calculated as Pb) ACGIH TLV (1994-09-01) TWA 0.05 mg/m3 (as Cr) OSHA PEL (1993-06-30) TWA 0.05 mg/m3 (calculated as Pb) OSHA PEL Z2 (2006-11-27) CEIL 0.001 mg/m3 OSHA PEL 1989 (1989-03-01) CEIL 0.1 mg/m3 (as CrO3)</p>
<p>Molybdate orange (Lead chromate pigment)</p>	<p>OSHA PEL (1993-06-30) TWA 15 mg/m3 (as Mo) Form: Total dust OSHA PEL (2006-11-27) TWA 0.005 mg/m3 (as Cr) OSHA PEL Z2 (2006-11-27) CEIL 0.001 mg/m3 NIOSH REL (2010-09-01) TWA 0.0002 mg/m3 (as Cr) NIOSH REL (2010-09-01) See Appendix C - Supplemental Exposure Limits TWA 0.5 mg/m3 (as Cr) OSHA PEL 1989 (1989-03-01) CEIL 0.1 mg/m3 (as CrO3) TWA 0.05 mg/m3 (calculated as Pb) TWA 10 mg/m3 (as Mo) Form: Total dust TWA 0.5 mg/m3 (as Cr) ACGIH TLV (1995-05-23) Biological exposure index or indices recommended for substance listed TWA 0.05 mg/m3 (calculated as Pb) ACGIH TLV (2001-02-22) TWA 10 mg/m3 (as Mo) Form: Inhalable fraction TWA 3 mg/m3 (as Mo) Form: Respirable fraction OSHA PEL (1993-06-30) TWA 0.05 mg/m3 (calculated as Pb)</p>
<p>Lead sulfate</p>	<p>OSHA PEL 1989 (1989-03-01) TWA 0.05 mg/m3 (calculated as Pb) ACGIH TLV (1995-05-23)</p>



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	TWA 0.05 mg/m3 (calculated as Pb)
Titanium dioxide	<p>OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust</p> <p>OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust</p> <p>ACGIH TLV (1996-05-18) TWA 10 mg/m3</p>
Antimony trioxide	<p>OSHA PEL (1993-06-30) TWA 0.5 mg/m3 (as antimony)</p> <p>NIOSH REL (1994-06-01) TWA 0.5 mg/m3 (as antimony)</p> <p>OSHA PEL 1989 (1989-03-01) TWA 0.5 mg/m3 (as antimony)</p>
Lead chromate	<p>ACGIH TLV (2012-03-05) TWA 0.012 mg/m3 (as Cr)</p> <p>ACGIH TLV (1994-09-01) TWA 0.05 mg/m3 (calculated as Pb)</p> <p>OSHA PEL (2006-11-27) TWA 0.005 mg/m3 (as Cr)</p> <p>OSHA PEL Z2 (2006-11-27) CEIL 0.001 mg/m3</p> <p>NIOSH REL (2010-09-01) TWA 0.0002 mg/m3 (as Cr)</p> <p>OSHA PEL 1989 (1989-03-01) CEIL 0.1 mg/m3 (as CrO3)</p> <p>TWA 0.05 mg/m3 (calculated as Pb)</p> <p>OSHA PEL (1993-06-30) TWA 0.05 mg/m3 (calculated as Pb)</p>

Appropriate engineering controls : 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.

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

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- 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.
- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

- Physical state** : liquid [liquid]
Color : Not determined
Odor : Not available.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.
Boiling point : Not available.
Flash point : Not available.



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- 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. **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 SADT** : Not available.
- Viscosity** : **Dynamic:** Not available. **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** : Keep away from extreme heat and oxidizing agents.
- Incompatible materials** : Keep away from strong acids. Oxidizer.
- 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
Remarks - Oral:	No applicable toxicity data			



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Remarks - Inhalation:	No applicable toxicity data			
Remarks - Dermal:	No applicable toxicity data			
Remarks - Oral:	No applicable toxicity data			
Remarks - Inhalation:	No applicable toxicity data			
Remarks - Dermal:	No applicable toxicity data			
Remarks - Oral:	No applicable toxicity data			
Remarks - Inhalation:	No applicable toxicity data			
Remarks - Dermal:	No applicable toxicity data			
Antimony trioxide				
	LD50 Oral	Rat	34,000 mg/kg	-
Remarks - Inhalation:	No applicable toxicity data			
Remarks - Dermal:	No applicable toxicity data			
Titanium dioxide				
Remarks - Oral:	No applicable toxicity data			
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Chrome yellow (Lead chromate pigment)				
Remarks - Oral:	No applicable toxicity data			
Remarks - Inhalation:	No applicable toxicity data			
Remarks - Dermal:	No applicable toxicity data			

Conclusion/Summary : Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimony trioxide	Eyes - Mild irritant	Rabbit			-
Titanium dioxide	Skin - Mild irritant	Human		72 hrs	-

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.



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Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
Molybdate orange (Lead chromate pigment)	+	12A	Known to be a human carcinogen.Reasonably anticipated to be a human carcinogen.
Lead sulfate		2A	
Lead chromate	+	1	
Antimony trioxide		2B	
Titanium dioxide		2B	
Chrome yellow (Lead chromate pigment)	+	12A	

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 likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- 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 : No specific data.



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Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects as well as 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 : No known significant effects or critical hazards.
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
Molybdate orange (Lead chromate pigment)			
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic	No applicable toxicity data		

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invertebrates.:			
Remarks - Acute - Aquatic plants:	No applicable toxicity data		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic - Aquatic invertebrates.:	No applicable toxicity data		
Lead sulfate			
	Acute LC50 0.75 Mg/l Marine water	Fish - Fish	96 h
Remarks - Acute - Fish:	Acute		
	Acute IC50 0.000082 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
	Acute LC50 54.5 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
Remarks - Acute - Aquatic plants:	No applicable toxicity data		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic - Aquatic invertebrates.:	No applicable toxicity data		
Lead chromate			
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic invertebrates.:	No applicable toxicity data		
Remarks - Acute - Aquatic plants:	No applicable toxicity data		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic - Aquatic invertebrates.:	No applicable toxicity data		
Antimony trioxide			
	Acute LC50 > 530 Mg/l Fresh water	Fish - Fish	96 h
Remarks - Acute - Fish:	Acute		
	Acute EC50 560 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
	Acute EC50 0.42345 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		



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	Acute EC50 0.73 Mg/l Fresh water	Aquatic plants - Algae	72 h
Remarks - Acute - Aquatic plants:	Acute		
	Acute EC50 0.74 Mg/l Fresh water	Aquatic plants - Algae	96 h
Remarks - Acute - Aquatic plants:	Acute		
	Acute NOEC 0.2 Mg/l Fresh water	Aquatic plants - Algae	96 h
Remarks - Acute - Aquatic plants:	Chronic		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic - Aquatic invertebrates.:	No applicable toxicity data		
Titanium dioxide			
	Acute LC50 > 1,000 Mg/l Marine water	Fish - Fish	96 h
Remarks - Acute - Fish:	Acute		
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates. Crustaceans	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates. Daphnia	48 h
Remarks - Acute - Aquatic invertebrates.:	Acute		
Remarks - Acute - Aquatic plants:	No applicable toxicity data		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic - Aquatic invertebrates.:	No applicable toxicity data		
Chrome yellow (Lead chromate pigment)			
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic invertebrates.:	No applicable toxicity data		
Remarks - Acute - Aquatic plants:	No applicable toxicity data		
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic - Aquatic invertebrates.:	No applicable toxicity data		

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.



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Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Molybdate orange (Lead chromate pigment)	-	3,600.00	high
Chrome yellow (Lead chromate pigment)	-	3,600.00	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 49CFR Ground/Air/Water** : Not regulated for transportation.



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International Air : Consult mode specific transport rules
 ICAO/IATA

International Water : Consult mode specific transport rules
 IMO/IMDG

Section 15. Regulatory information

- U.S. Federal regulations :
 - United States - TSCA 12(b) - Chemical export notification:** The following components are listed: **Chrome yellow (Lead chromate pigment)**
 Lead chromate
 Lead sulfate
 Molybdate orange (Lead chromate pigment)
 - 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:** Listed **Molybdate orange (Lead chromate pigment)**
 Lead sulfate
 - United States - TSCA 5(a)2 - Proposed significant new use rules:** Not listed
 - United States - TSCA 5(e) - Substances consent order:** Not listed
 - United States - TSCA 6 - Final risk management:** Listed
 Molybdate orange (Lead chromate pigment)
 Lead chromate
 Chrome yellow (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 precursor:** 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**



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Molybdate orange (Lead chromate pigment)
Lead sulfate
Antimony trioxide
Chrome yellow (Lead chromate pigment)

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) 4.54 kg
Antimony trioxide	1309-64-4	1,000 lb(s) 454 kg

SARA 311/312

Classification : CARCINOGENICITY - Category 1A

Composition/information on ingredients

Name	%	Classification
Chrome yellow (Lead	>= 25 - <= 50	Delayed (chronic) health hazard

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chromate pigment)		
Titanium dioxide	>= 5 - <= 10	Delayed (chronic) health hazard
Antimony trioxide	>= 3 - <= 5	Immediate (acute) health hazard - Delayed (chronic) health hazard
Lead chromate	>= 3 - <= 5	Delayed (chronic) health hazard
Lead sulfate	>= 3 - <= 5	Delayed (chronic) health hazard
Molybdate orange (Lead chromate pigment)	>= 3 - <= 5	Delayed (chronic) health hazard

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Chrome yellow (Lead chromate pigment)	1344-37-2	25 - 50
	Antimony trioxide	1309-64-4	3 - 5
	Lead chromate	7758-97-6	3 - 5
	Lead sulfate	7446-14-2	3 - 5
	Molybdate orange (Lead chromate pigment)	12656-85-8	3 - 5
Supplier notification	Molybdate orange (Lead chromate pigment)	12656-85-8	3 - 5
	Lead sulfate	7446-14-2	3 - 5
	Lead chromate	7758-97-6	3 - 5
	Antimony trioxide	1309-64-4	3 - 5
	Chrome yellow (Lead chromate pigment)	1344-37-2	25 - 50

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

: None of the components are listed.

New York

: The following components are listed:

Antimony trioxide

Lead sulfate



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- New Jersey** : The following components are listed:
 Chrome yellow (Lead chromate pigment)
 Titanium dioxide
 Molybdate orange (Lead chromate pigment)
 Lead sulfate
 Lead chromate
 Antimony trioxide
- Pennsylvania** : The following components are listed:
 Molybdate orange (Lead chromate pigment)
- Lead sulfate
- Lead chromate
- Antimony trioxide
- Titanium dioxide
- Chrome yellow (Lead chromate pigment)

California Prop. 65

 **WARNING:** This product can expose you to chemicals including Chrome yellow (Lead chromate pigment), Lead chromate, Molybdate orange (Lead chromate pigment), which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Lead sulfate, Antimony trioxide, Titanium dioxide, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Chrome yellow (Lead chromate pigment)	Yes.	No.
Titanium dioxide	No.	No.
Antimony trioxide	No.	No.
Lead chromate	Yes.	No.
Molybdate orange (Lead chromate pigment)	Yes.	No.
Lead sulfate	No.	No.

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

Canada inventory : All components are listed or exempted.

International regulations

Inventory list



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- Australia : All components are listed or exempted.
- Canada : All components are listed or exempted.
- China : All components are listed or exempted.
- Europe inventory : All components are listed or exempted.
- Japan : All components are listed or exempted.
- New Zealand : All components are listed or exempted.
- Philippines : All components are listed or exempted.
- Republic of Korea : All components are listed or exempted.
- Taiwan : All components are listed or exempted.
- Turkey : Not determined.
- United States : All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

History

- Date of printing : 01/04/2019
- Date of issue/Date of revision : 12/31/2018
- Date of previous issue : 11/16/2018
- Version : 1.2

Key to abbreviations

- : ATE = Acute Toxicity Estimate
- : BCF = Bioconcentration Factor
- : GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- : IATA = International Air Transport Association
- : IBC = Intermediate Bulk Container
- : IMDG = International Maritime Dangerous Goods
- : LogPow = logarithm of the octanol/water partition coefficient
- : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)



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References

UN = United Nations
: Not available.

Notice to reader

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