

## SAFETY DATA SHEET

### Section 1. Identification

**Product identifier** : 250-S  
**Product name** : Metalok Pre-Treatment  
**Other means of identification** : 1250033938

**Date of issue** : 10/25/2023  
**Version** : 19.02

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

**Identified uses** : Coating component.  
**Uses advised against** : Not for sale to or use by consumers.

**Supplier's details** : Axalta Coating Systems, LLC  
50 Applied Bank Blvd.  
Suite 300  
Glen Mills, PA 19342  
USA

**Product information** : 855-6AXALTA

**Emergency telephone number** : (CHEMTREC) - 800-424-9300

### Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2  
ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 2  
EYE IRRITATION - Category 2A  
RESPIRATORY SENSITIZATION - Category 1  
SKIN SENSITIZATION - Category 1  
GERM CELL MUTAGENICITY - Category 1  
CARCINOGENICITY - Category 1A  
TOXIC TO REPRODUCTION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 5%

#### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

## Section 2. Hazards identification

|   |   |
|---|---|
| <b>Hazard statements</b>                | : H225 - Highly flammable liquid and vapor.<br>H302 - Harmful if swallowed.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H330 - Fatal if inhaled.<br>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H335 - May cause respiratory irritation.<br>H340 - May cause genetic defects.<br>H350 - May cause cancer.<br>H361 - Suspected of damaging fertility or the unborn child.  |
| <b><u>Precautionary statements</u></b>  |   |
| <b>Prevention</b>                       | : P201 - Obtain special instructions before use.<br>P280 - Wear protective gloves, protective clothing and eye or face protection.<br>P284 - Wear respiratory protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P241 - Use explosion-proof electrical, ventilating or lighting equipment.<br>P242 - Use non-sparking tools.<br>P243 - Take action to prevent static discharges.<br>P260 - Do not breathe vapor.<br>P270 - Do not eat, drink or smoke when using this product.<br>P264 - Wash hands thoroughly after handling.   |
| <b>Response</b>                         | : P308 + P313 - IF exposed or concerned: Get medical advice or attention.<br>P304 + P340, P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.<br>P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.<br>P363 - Wash contaminated clothing before reuse.<br>P302 + P352 - IF ON SKIN: Wash with plenty of water.<br>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| <b>Storage</b>                          | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P403 + P235 - Keep cool.  |
| <b>Disposal</b>                         | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| <b>Hazards not otherwise classified</b> | : None known.   |

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name      | CAS number | Concentration |
|----------------------|------------|---------------|
| strontium chromate   | 7789-06-2  | ≥10 - ≤25     |
| 4-methylpentan-2-one | 108-10-1   | ≥10 - ≤25     |
| ETHYL ACETATE        | 141-78-6   | ≤9.1          |
| DIACETONE ALCOHOL    | 123-42-2   | ≤5            |
| METHYL AMYL KETONE   | 110-43-0   | ≤5            |
| titanium dioxide     | 13463-67-7 | ≤3            |

### Section 3. Composition/information on ingredients

|                     |            |      |
|---------------------|------------|------|
| METHYL ETHYL KETONE | 78-93-3    | ≤3   |
| barium chromate     | 10294-40-3 | <1   |
| ETHYLBENZENE        | 100-41-4   | ≤0.3 |
| Quartz              | 14808-60-7 | ≤0.3 |

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** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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 the event of any complaints or symptoms, avoid further exposure.
- Skin contact** : Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. 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. If necessary, call a poison center or physician. 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** : Causes serious eye irritation.
- Inhalation** : Fatal if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed.

##### Over-exposure signs/symptoms

## Section 4. First aid measures

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
wheezing and breathing difficulties  
asthma  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### 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, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
metal oxide/oxides

## Section 5. Fire-fighting measures

**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. Do not breathe 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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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 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). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain

## Section 7. Handling and storage

### Advice on general occupational hygiene

product residue and can be hazardous. Do not reuse container.

: 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 locked up. 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. See Section 10 for incompatible materials before handling or use.

### Storage code

: IA

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name      | Exposure limits   |
|----------------------|---|
| strontium chromate   | <p><b>ACGIH TLV (United States, 1/2022).</b><br/>TWA: 0.0005 mg/m<sup>3</sup>, (measured as Cr) 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989). [Chromic acid and chromates (as CrO<sub>3</sub>)]</b><br/>CEIL: 0.1 mg/m<sup>3</sup>, (as CrO<sub>3</sub>)</p> <p><b>OSHA PEL Z2 (United States, 2/2013). [Chromic acid and chromates]</b><br/>CEIL: 1 mg/10m<sup>3</sup></p> <p><b>NIOSH REL (United States, 10/2020). [chromic acid and chromates]</b><br/>TWA: 0.0002 mg/m<sup>3</sup> 8 hours.</p> <p><b>OSHA PEL (United States, 5/2018). [Chromium (VI) compounds]</b><br/>TWA: 0.005 mg/m<sup>3</sup>, (as Cr) 8 hours.</p> <p><b>CAL OSHA PEL (United States, 5/2018).</b><br/>TWA: 0.0005 mg/m<sup>3</sup>, (as Cr) 8 hours.</p> |
| 4-methylpentan-2-one | <p><b>ACGIH TLV (United States, 1/2022).</b><br/>TWA: 20 ppm 8 hours.<br/>STEL: 75 ppm 15 minutes.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>TWA: 50 ppm 8 hours.<br/>TWA: 205 mg/m<sup>3</sup> 8 hours.<br/>STEL: 75 ppm 15 minutes.<br/>STEL: 300 mg/m<sup>3</sup> 15 minutes.</p> <p><b>NIOSH REL (United States, 10/2020).</b><br/>TWA: 50 ppm 10 hours.<br/>TWA: 205 mg/m<sup>3</sup> 10 hours.<br/>STEL: 75 ppm 15 minutes.<br/>STEL: 300 mg/m<sup>3</sup> 15 minutes.</p> <p><b>OSHA PEL (United States, 5/2018).</b></p>   |

## Section 8. Exposure controls/personal protection

ETHYL ACETATE

TWA: 100 ppm 8 hours.  
 TWA: 410 mg/m<sup>3</sup> 8 hours.  
**CAL OSHA PEL (United States, 5/2018).**  
 STEL: 300 mg/m<sup>3</sup> 15 minutes.  
 STEL: 75 ppm 15 minutes.  
 TWA: 205 mg/m<sup>3</sup> 8 hours.  
 TWA: 50 ppm 8 hours.

**ACGIH TLV (United States, 1/2022).**

TWA: 400 ppm 8 hours.  
 TWA: 1440 mg/m<sup>3</sup> 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 400 ppm 8 hours.  
 TWA: 1400 mg/m<sup>3</sup> 8 hours.

**NIOSH REL (United States, 10/2020).**

TWA: 400 ppm 10 hours.  
 TWA: 1400 mg/m<sup>3</sup> 10 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 400 ppm 8 hours.  
 TWA: 1400 mg/m<sup>3</sup> 8 hours.

**CAL OSHA PEL (United States, 5/2018).**

TWA: 1400 mg/m<sup>3</sup> 8 hours.  
 TWA: 400 ppm 8 hours.

DIACETONE ALCOHOL

**ACGIH TLV (United States, 1/2022).**

TWA: 50 ppm 8 hours.  
 TWA: 238 mg/m<sup>3</sup> 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 50 ppm 8 hours.  
 TWA: 240 mg/m<sup>3</sup> 8 hours.

**NIOSH REL (United States, 10/2020).**

TWA: 50 ppm 10 hours.  
 TWA: 240 mg/m<sup>3</sup> 10 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 50 ppm 8 hours.  
 TWA: 240 mg/m<sup>3</sup> 8 hours.

**CAL OSHA PEL (United States, 5/2018).**

TWA: 240 mg/m<sup>3</sup> 8 hours.  
 TWA: 50 ppm 8 hours.

METHYL AMYL KETONE

**ACGIH TLV (United States, 1/2022).**

TWA: 50 ppm 8 hours.  
 TWA: 233 mg/m<sup>3</sup> 8 hours.

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 100 ppm 8 hours.  
 TWA: 465 mg/m<sup>3</sup> 8 hours.

**NIOSH REL (United States, 10/2020).**

TWA: 100 ppm 10 hours.  
 TWA: 465 mg/m<sup>3</sup> 10 hours.

**OSHA PEL (United States, 5/2018).**

TWA: 100 ppm 8 hours.  
 TWA: 465 mg/m<sup>3</sup> 8 hours.

**CAL OSHA PEL (United States, 5/2018).**

TWA: 235 mg/m<sup>3</sup> 8 hours.  
 TWA: 50 ppm 8 hours.

## Section 8. Exposure controls/personal protection

titanium dioxide

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust

**OSHA PEL (United States, 5/2018).**

TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust

**CAL OSHA PEL (United States, 5/2018).**

TWA: 5 mg/m<sup>3</sup>, (as Ti) 8 hours. Form: respirable fraction

TWA: 10 mg/m<sup>3</sup>, (as Ti) 8 hours. Form: total dust

**ACGIH TLV (United States, 1/2022).**

TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: respirable fraction, finescale particles

METHYL ETHYL KETONE

**ACGIH TLV (United States, 1/2022).**

TWA: 200 ppm 8 hours.

TWA: 590 mg/m<sup>3</sup> 8 hours.

STEL: 300 ppm 15 minutes.

STEL: 885 mg/m<sup>3</sup> 15 minutes.

**OSHA PEL 1989 (United States, 3/1989).**

TWA: 200 ppm 8 hours.

TWA: 590 mg/m<sup>3</sup> 8 hours.

STEL: 300 ppm 15 minutes.

STEL: 885 mg/m<sup>3</sup> 15 minutes.

**NIOSH REL (United States, 10/2020).**

TWA: 200 ppm 10 hours.

TWA: 590 mg/m<sup>3</sup> 10 hours.

STEL: 300 ppm 15 minutes.

STEL: 885 mg/m<sup>3</sup> 15 minutes.

**OSHA PEL (United States, 5/2018).**

TWA: 200 ppm 8 hours.

TWA: 590 mg/m<sup>3</sup> 8 hours.

**CAL OSHA PEL (United States, 5/2018).**

STEL: 885 mg/m<sup>3</sup> 15 minutes.

STEL: 300 ppm 15 minutes.

TWA: 590 mg/m<sup>3</sup> 8 hours.

TWA: 200 ppm 8 hours.

barium chromate

**OSHA PEL 1989 (United States, 3/1989). [Chromic acid and chromates (as CrO<sub>3</sub>)]**

CEIL: 0.1 mg/m<sup>3</sup>, (as CrO<sub>3</sub>)

**OSHA PEL Z2 (United States, 2/2013). [Chromic acid and chromates]**

CEIL: 1 mg/10m<sup>3</sup>

**NIOSH REL (United States, 10/2020). [chromic acid and chromates]**

TWA: 0.0002 mg/m<sup>3</sup> 8 hours.

**ACGIH TLV (United States, 1/2022). [inorganic chromium VI compounds as Cr (VI)]**

TWA: 0.0002 mg/m<sup>3</sup>, (measured as Cr) 8 hours. Form: Inhalable fraction

STEL: 0.0005 mg/m<sup>3</sup>, (measured as Cr) 15 minutes.

Form: Inhalable fraction

**OSHA PEL (United States, 5/2018). [Chromium (VI) compounds]**

TWA: 0.005 mg/m<sup>3</sup>, (as Cr) 8 hours.





## Section 8. Exposure controls/personal protection

### 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- 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.
- Color** : Yellow.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point** : Technically not possible to measure
- Boiling point** : 70 to 118°C (158 to 244.4°F)
- Flash point** : Closed cup: 10.5°C (50.9°F)
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 1.2%  
Upper: 11.4%
- Vapor pressure** : 1.2 kPa (9.3 mm Hg)
- Vapor density** : Not available.
- Density** : 1.372 g/cm<sup>3</sup>
- Solubility(ies)** :

| Media      | Result            |
|------------|-------------------|
| cold water | Partially soluble |

- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : 393°C (739.4°F)
- Decomposition temperature** : Not applicable.
- Viscosity** : Not available.

## Section 9. Physical and chemical properties

Flow time (ISO 2431) : Not available.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name            | Result                          | Species | Dose        | Exposure |
|------------------------------------|---------------------------------|---------|-------------|----------|
| strontium chromate                 | LD50 Oral                       | Rat     | 3118 mg/kg  | -        |
| 4-methylpentan-2-one               | LC50 Inhalation Vapor           | Rat     | 16.4 mg/l   | 4 hours  |
|                                    | LD50 Oral                       | Rat     | 2080 mg/kg  | -        |
| ETHYL ACETATE                      | LC50 Inhalation Vapor           | Rat     | 22.6 mg/l   | 4 hours  |
|                                    | LD50 Dermal                     | Rabbit  | 20001 mg/kg | -        |
|                                    | LD50 Oral                       | Rat     | 5620 mg/kg  | -        |
| DIACETONE ALCOHOL                  | LD50 Dermal                     | Rabbit  | 13500 mg/kg | -        |
|                                    | LD50 Oral                       | Rat     | 2520 mg/kg  | -        |
| METHYL AMYL KETONE                 | LC50 Inhalation Vapor           | Rat     | 16.8 mg/l   | 4 hours  |
|                                    | LD50 Dermal                     | Rabbit  | 10332 mg/kg | -        |
|                                    | LD50 Oral                       | Rat     | 1600 mg/kg  | -        |
| METHYL ETHYL KETONE                | LD50 Dermal                     | Rabbit  | 6480 mg/kg  | -        |
|                                    | LD50 Oral                       | Rat     | 2737 mg/kg  | -        |
| ETHYLBENZENE                       | LD50 Dermal                     | Rabbit  | >5000 mg/kg | -        |
|                                    | LD50 Oral                       | Rat     | 3500 mg/kg  | -        |
| crystalline silica, non-respirable | LC50 Inhalation Dusts and mists | Rat     | 12.6 mg/l   | 4 hours  |

#### Irritation/Corrosion

## Section 11. Toxicological information

| Product/ingredient name | Result                   | Species | Score | Exposure        | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| 4-methylpentan-2-one    | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 uL | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 40 mg           | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 mg | -           |
| DIACETONE ALCOHOL       | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 100 uL | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 20 mg           | -           |
| METHYL AMYL KETONE      | Skin - Mild irritant     | Rabbit  | -     | 500 mg          | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 14 mg  | -           |
| METHYL ETHYL KETONE     | Skin - Mild irritant     | Rabbit  | -     | 24 hours 14 mg  | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| ETHYLBENZENE            | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 mg  | -           |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Classification

| Product/ingredient name            | OSHA | IARC | NTP                             |
|------------------------------------|------|------|---------------------------------|
| strontium chromate                 | +    | 1    | Known to be a human carcinogen. |
| 4-methylpentan-2-one               | -    | 2B   | -                               |
| titanium dioxide                   | -    | 2B   | -                               |
| barium chromate                    | +    | 1    | Known to be a human carcinogen. |
| ETHYLBENZENE                       | -    | 2B   | -                               |
| crystalline silica, non-respirable | -    | 1    | Known to be a human carcinogen. |

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name                 | Category   | Route of exposure | Target organs                |
|----------------------|------------|-------------------|------------------------------|
| strontium chromate   | Category 3 | -                 | Respiratory tract irritation |
| 4-methylpentan-2-one | Category 3 | -                 | Respiratory tract irritation |
| ETHYL ACETATE        | Category 3 | -                 | Narcotic effects             |
| DIACETONE ALCOHOL    | Category 3 | -                 | Respiratory tract irritation |
| METHYL AMYL KETONE   | Category 3 | -                 | Narcotic effects             |

## Section 11. Toxicological information

|                     |            |   |                  |
|---------------------|------------|---|------------------|
| METHYL ETHYL KETONE | Category 3 | - | Narcotic effects |
|---------------------|------------|---|------------------|

### Specific target organ toxicity (repeated exposure)

| Name                               | Category   | Route of exposure | Target organs            |
|------------------------------------|------------|-------------------|--------------------------|
| barium chromate                    | Category 1 | -                 | liver, respiratory tract |
| ETHYLBENZENE                       | Category 2 | -                 | -                        |
| crystalline silica, non-respirable | Category 1 | -                 | -                        |

### Aspiration hazard

| Name         | Result                         |
|--------------|--------------------------------|
| ETHYLBENZENE | ASPIRATION HAZARD - Category 1 |

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

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Fatal if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed.

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

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
wheezing and breathing difficulties  
asthma  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

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

#### Short term exposure

**Potential immediate effects** : Not available.

## Section 11. Toxicological information

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity** : May cause genetic defects.

**Teratogenicity** : Suspected of damaging the unborn child.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : Suspected of damaging fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                        | ATE value     |
|------------------------------|---------------|
| Oral                         | 1987.31 mg/kg |
| Inhalation (vapors)          | 82.43 mg/l    |
| Inhalation (dusts and mists) | 0.27 mg/l     |




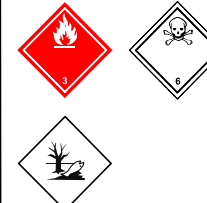

## Section 12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses waterways.

## 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                            | DOT<br>Classification  | TDG<br>Classification  | Mexico<br>Classification   | IMDG   | IATA   |
|----------------------------|--|--|--|--|--|
| UN number                  | UN1992   | UN1992   | UN1992   | UN1992   | UN1992   |
| UN proper shipping name    | FLAMMABLE LIQUID, TOXIC, N. O.S.<br>(4-methylpentan-2-one, strontium chromate)               | FLAMMABLE LIQUID, TOXIC, N. O.S.<br>(4-methylpentan-2-one, strontium chromate)               | FLAMMABLE LIQUID, TOXIC, N. O.S.<br>(4-methylpentan-2-one, strontium chromate)               | FLAMMABLE LIQUID, TOXIC, N. O.S.<br>(4-methylpentan-2-one, strontium chromate)                 | FLAMMABLE LIQUID, TOXIC, N. O.S.<br>(4-methylpentan-2-one, strontium chromate)                 |
| Transport hazard class(es) | 3 (6.1)<br> | 3 (6.1)<br> | 3 (6.1)<br> | 3 (6.1)<br> | 3 (6.1)<br> |
| Packing group              | II   | II   | II   | II   | II   |
| Environmental hazards      | No.  | No.  | No.  | Yes.   | Yes. The environmentally hazardous substance mark is not required.                             |

### Additional information

- DOT Classification** : **Reportable quantity** 53.702 lbs / 24.381 kg [4.6944 gal / 17.77 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
- TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.26-2.36 (Class 6).
- IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
- IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## Section 15. Regulatory information

Clean Air Act Section 112 : Listed

(b) Hazardous Air  
Pollutants (HAPs)

### SARA 304 RQ

SARA 304 RQ : Not applicable.

### SARA 311/312

Classification : FLAMMABLE LIQUIDS - Category 2  
ACUTE TOXICITY (oral) - Category 4  
ACUTE TOXICITY (inhalation) - Category 2  
EYE IRRITATION - Category 2A  
RESPIRATORY SENSITIZATION - Category 1  
SKIN SENSITIZATION - Category 1  
GERM CELL MUTAGENICITY - Category 1  
CARCINOGENICITY - Category 1A  
TOXIC TO REPRODUCTION - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### SARA 313

|                                 | Product name         | CAS number | %         |
|---------------------------------|----------------------|------------|-----------|
| Form R - Reporting requirements | strontium chromate   | 7789-06-2  | ≥10 - ≤25 |
|                                 | 4-methylpentan-2-one | 108-10-1   | ≥10 - ≤25 |
|                                 | barium chromate      | 10294-40-3 | <1        |
|                                 | ETHYLBENZENE         | 100-41-4   | ≤0.3      |
| Supplier notification           | strontium chromate   | 7789-06-2  | ≥10 - ≤25 |
|                                 | 4-methylpentan-2-one | 108-10-1   | ≥10 - ≤25 |
|                                 | barium chromate      | 10294-40-3 | <1        |
|                                 | ETHYLBENZENE         | 100-41-4   | ≤0.3      |

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.

### Inventory list

Canada : At least one component is not listed.

United States : All components are listed or exempted.

## Section 16. Other information

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

|                  |   |   |
|------------------|---|---|
| Health           | * | 3 |
| Flammability     |   | 3 |
| 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 PPE codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



## Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

Date of issue : 10/25/2023

Version : 19.02

Product stewardship and regulatory compliance.

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 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)  
 UN = United Nations

▣ Indicates information that has changed from previously issued version.

### Notice to reader

This product is intended for industrial use only.

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