# SAFETY DATA SHEET

CEILCOTE 380 PRIMER PART A

## Section 1. Identification

**GHS product identifier** : CEILCOTE 380 PRIMER PART A

**SDS code** : NCA061

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

| Identified uses |
|---|
| Professional use<br>Industrial use |

| Uses advised against |
|---|
| Consumer use |

**Product use** : Two component coating for interior and exterior use.

**Supplier's details**

Akzo Nobel Coatings
International Paint LLC
6001 Antoine Drive
Houston, Texas 77091
International Paint 1-800-589-1267
International Paint (International) 1-713-682-1711

Akzo Nobel Coatings Ltd.
4-110 Woodbine Downs Blvd.
Etobicoke ON M9W 5S6
Canada
International Paint (International) 1-713-682-1711

Akzo Nobel Performance Coatings, S.A. de C.V.
Anillo Periférico #205 Km16.64
Hacienda San José
García, Nuevo Leon, Mexico.
CP 66000

**Emergency telephone number (with hours of operation)** : CHEMTREC (USA) +1 (800) 424-9300 (24Hr)
CHEMTREC (International) +1 (703) 527-3887
Domestic Poison Control Center Customer Service +1 (800) 854-6813

## 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 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

## Section 2. Hazards identification

**GHS label elements**

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause respiratory irritation.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure. (hearing organs)

**Precautionary statements**

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

**Response** : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

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

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

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name | % | CAS number |
|---|---|---|
| styrene | ≥25 - ≤50 | 100-42-5 |
| ethylbenzene | <1 | 100-41-4 |
| N,N-dimethylaniline | ≤0.3 | 121-69-7 |
| cobalt bis(2-ethylhexanoate) | ≤0.3 | 136-52-7 |

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

# Section 3. Composition/information on ingredients

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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 if easy to do. 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 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. Get medical attention. If necessary, call a poison center or physician. 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** : 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. 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** : May cause respiratory irritation.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

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

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations

## Section 4. First aid measures

**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, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : 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

**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 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 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 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.

## Section 7. Handling and storage

**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.

## Section 8. Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits**

| Ingredient name | Exposure limits |
|---|---|
| styrene | **ACGIH TLV (United States, 1/2023). Ototoxicant.**<br>STEL: 20 ppm 15 minutes.<br>TWA: 10 ppm 8 hours.<br>**NIOSH REL (United States, 10/2020).**<br>STEL: 425 mg/m³ 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 215 mg/m³ 10 hours.<br>TWA: 50 ppm 10 hours.<br>**OSHA PEL Z2 (United States, 2/2013).**<br>AMP: 600 ppm 5 minutes.<br>CEIL: 200 ppm<br>TWA: 100 ppm 8 hours.<br>**OSHA PEL 1989 (United States, 3/1989). Notes: See Table Z-2.**<br>STEL: 425 mg/m³ 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 215 mg/m³ 8 hours.<br>TWA: 50 ppm 8 hours. |
| ethylbenzene | **ACGIH TLV (United States, 1/2023). Ototoxicant. Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption.**<br>TWA: 20 ppm 8 hours.<br>**NIOSH REL (United States, 10/2020).**<br>STEL: 545 mg/m³ 15 minutes.<br>STEL: 125 ppm 15 minutes.<br>TWA: 435 mg/m³ 10 hours.<br>TWA: 100 ppm 10 hours.<br>**OSHA PEL (United States, 5/2018).**<br>TWA: 435 mg/m³ 8 hours.<br>TWA: 100 ppm 8 hours.<br>**OSHA PEL 1989 (United States, 3/1989).**<br>STEL: 545 mg/m³ 15 minutes.<br>STEL: 125 ppm 15 minutes.<br>TWA: 435 mg/m³ 8 hours.<br>TWA: 100 ppm 8 hours. |
| N,N-dimethylaniline | **ACGIH TLV (United States, 1/2023). Absorbed through skin Notes: 1996 Adoption Substances for which there is a Biological Exposure Index or Indices** |

## Section 8. Exposure controls/personal protection

| | |
|---|---|
| | **Refers to Appendix A -- Carcinogens.**<br>STEL: 50 mg/m³ 15 minutes.<br>STEL: 10 ppm 15 minutes.<br>TWA: 25 mg/m³ 8 hours.<br>TWA: 5 ppm 8 hours.<br>**NIOSH REL (United States, 10/2020).**<br>**Absorbed through skin**<br>STEL: 50 mg/m³ 15 minutes.<br>STEL: 10 ppm 15 minutes.<br>TWA: 25 mg/m³ 10 hours.<br>TWA: 5 ppm 10 hours.<br>**OSHA PEL (United States, 5/2018).**<br>**Absorbed through skin**<br>TWA: 25 mg/m³ 8 hours.<br>TWA: 5 ppm 8 hours.<br>**OSHA PEL 1989 (United States, 3/1989).**<br>**Absorbed through skin**<br>STEL: 50 mg/m³ 15 minutes.<br>STEL: 10 ppm 15 minutes.<br>TWA: 25 mg/m³ 8 hours.<br>TWA: 5 ppm 8 hours. |
| cobalt bis(2-ethylhexanoate) | **ACGIH TLV (United States, 1/2023). [cobalt and inorganic compounds] Skin sensitizer. Inhalation sensitizer.**<br>TWA: 0.02 mg/m³, (as Co) 8 hours. |

**Appropriate engineering controls** : Use only with adequate ventilation. 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. Contaminated work clothing should not be allowed out of the workplace. 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: chemical splash goggles.

**Skin protection**

## Section 8. Exposure controls/personal 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. Wear a respirator conforming to EN140 with type A/P2 filter or better. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance**

**Physical state** : Liquid.

**Color** : Colorless.

**Odor** : Solvent.

**Odor threshold** : Not available.

**pH** : Not available. [DIN EN 1262]

**Melting point/freezing point** : Not available.

**Boiling point or initial boiling point and boiling range** : 145°C (293°F)

**Flash point** : Closed cup: 28°C (82.4°F) [Pensky-Martens]

**Flammability** : Not available.

**Lower and upper explosion limit** : Greatest known range: Lower: 0.9% Upper: 6.8% (styrene)

**Vapor pressure** :

| | Vapor Pressure at 20˚C | | | Vapor pressure at 50˚C | | |
|---|---|---|---|---|---|---|
| **Ingredient name** | **mm Hg** | **kPa** | **Method** | **mm Hg** | **kPa** | **Method** |
| styrene | 6.4 | 0.85 | | | | |

**Relative vapor density** : Not available.

**Density** : 1.043 g/cm³ [DIN EN ISO 2811-1]

## Section 9. Physical and chemical properties and safety characteristics

**Solubility(ies)** :

| Media | Result |
|---|---|
| cold water | Not soluble [OECD (TG 105)] |

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** :

| Ingredient name | °C | °F | Method |
|---|---|---|---|
| styrene | 490 | 914 | |

**Decomposition temperature** : Not available.

**Viscosity** : Kinematic (room temperature): 686 $mm^2/s$ (686 cSt) [DIN EN ISO 3219]
Kinematic (40°C (104°F)): 715 $mm^2/s$ (715 cSt) [DIN EN ISO 3219]

**Particle characteristics**

**Median particle size** : Not applicable.

**Percentage of particles with aerodynamic diameter ≤ 10 µm** : 0

## 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**

# Section 11. Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| styrene | LC50 Inhalation Gas. | Mouse | 4940 ppm | 2 hours |
| | LC50 Inhalation Gas. | Rat | 2770 ppm | 4 hours |
| | LC50 Inhalation Vapor | Mouse | 21000 mg/m³ | 2 hours |
| | LC50 Inhalation Vapor | Mouse | 9500 mg/m³ | 4 hours |
| | LC50 Inhalation Vapor | Rat | 11800 mg/m³ | 4 hours |
| | LD50 Intraperitoneal | Mouse | 660 mg/kg | - |
| | LD50 Intraperitoneal | Rat | 898 mg/kg | - |
| | LD50 Intravenous | Mouse | 90 mg/kg | - |
| | LD50 Oral | Mouse | 316 mg/kg | - |
| | LD50 Oral | Rat | 2650 mg/kg | - |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| ethylbenzene | LC50 Inhalation Gas. | Rabbit | 4000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Mouse | 35500 mg/m³ | 2 hours |
| | LC50 Inhalation Vapor | Rat | 55000 mg/m³ | 2 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Dermal | Rabbit | 17800 uL/kg | - |
| | LD50 Intraperitoneal | Mouse | 2624 uL/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| N,N-dimethylaniline | LD50 Dermal | Rabbit | 1770 mg/kg | - |
| | LD50 Dermal | Rabbit | 1770 uL/kg | - |
| | LD50 Intraperitoneal | Mouse | 960 mg/kg | - |
| | LD50 Oral | Mouse | 1440 mg/kg | - |
| | LD50 Oral | Rat | 951 mg/kg | - |
| | LD50 Oral | Rat | 1120 mg/kg | - |
| cobalt bis(2-ethylhexanoate) | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 1.22 g/kg | - |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| styrene | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 100 % | - |
| ethylbenzene | Eyes - Severe irritant | Rabbit | - | 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 15 mg | - |
| N,N-dimethylaniline | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 mg | - |
| | Eyes - Moderate irritant | Rabbit | - | 20 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 10 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |

**Sensitization**

Not available.

**Mutagenicity**

Not available.

**Carcinogenicity**

Not available.

# Section 11. Toxicological information

## Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| styrene | - | 2A | Reasonably anticipated to be a human carcinogen. |
| ethylbenzene | - | 2B | - |
| N,N-dimethylaniline | - | 3 | - |
| cobalt bis(2-ethylhexanoate) | - | 2B | Reasonably anticipated 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 |
|---|---|---|---|
| styrene | Category 3 | - | Respiratory tract irritation |

## Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---|---|---|---|
| styrene | Category 1 | - | hearing organs |
| ethylbenzene | Category 2 | - | hearing organs |

## Aspiration hazard

| Name | Result |
|---|---|
| styrene | ASPIRATION HAZARD - Category 1 |
| 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** : May cause respiratory irritation.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

**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:
pain or irritation
watering
redness

**Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations

# Section 11. Toxicological information

**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.

**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** : Causes damage to organs through prolonged or repeated exposure. 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** : No known significant effects or critical hazards.

**Reproductive toxicity** : May damage fertility or the unborn child.

**Numerical measures of toxicity**

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| Product as-supplied | N/A | N/A | N/A | 24.7 | N/A |
| styrene | N/A | N/A | N/A | 11 | N/A |
| ethylbenzene | N/A | N/A | N/A | 11 | N/A |
| N,N-dimethylaniline | 100 | 300 | N/A | 3 | N/A |

# Section 12. Ecological information

**Toxicity**

## Section 12. Ecological information

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| styrene | Acute EC50 1400 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 33 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 720 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 78000 µg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 4700 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 52 mg/l Marine water | Crustaceans - Artemia salina | 48 hours |
| | Acute LC50 23000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 59000 µg/l Fresh water | Daphnia - Daphnia magna - Young | 48 hours |
| | Acute LC50 9.1 ppm Marine water | Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 4.7 mg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 4020 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 9900 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 4080 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 63 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| ethylbenzene | Acute EC50 4600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 5400 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 3600 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 4900 µg/l Marine water | Algae - Skeletonema costatum | 72 hours |
| | Acute EC50 7700 µg/l Marine water | Algae - Skeletonema costatum | 96 hours |
| | Acute EC50 6.53 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 13.3 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute EC50 2.97 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 2.93 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 8.78 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute LC50 13.3 mg/l Marine water | Crustaceans - Artemia sp. - Nauplii | 48 hours |
| | Acute LC50 40000 µg/l Marine water | Crustaceans - Cancer magister - Zoea | 48 hours |
| | Acute LC50 18.4 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 13.9 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 75000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 5100 µg/l Marine water | Fish - Menidia menidia | 96 hours |
| | Acute LC50 4.3 ul/L Marine water | Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 4200 µg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 9090 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 9100 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| N,N-dimethylaniline | Acute EC50 22000 µg/l Fresh water | Algae - Chlorella pyrenoidosa | 72 hours |
| | Acute EC50 2.3 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |

## Section 12. Ecological information

| | | | |
|---|---|---|---|
| | Acute EC50 13700 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 78200 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 52600 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 65600 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| | Acute LC50 53700 µg/l Fresh water | Fish - Poecilia reticulata | 96 hours |
| | Chronic NOEC 14000 µg/l Fresh water | Algae - Chlorella pyrenoidosa | 72 hours |

**Persistence and degradability**

Not available.

**Bioaccumulative potential**

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| styrene | 0.35 | 13.49 | Low |
| ethylbenzene | 3.6 | - | Low |
| N,N-dimethylaniline | 1.171 | 16 | Low |
| cobalt bis(2-ethylhexanoate) | - | 15600 | High |

**Mobility in soil**

**Soil/Water partition coefficient** : 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. 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

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

## Section 14. Transport information

| | DOT Classification | IMDG | IATA |
|---|---|---|---|
| **UN number** | UN1263 | UN1263 | UN1263 |
| **UN proper shipping name** | PAINT | PAINT | PAINT |
| **Transport hazard class(es)** | 3   | 3   | 3   |
| **Packing group** | III | III | III |
| **Environmental hazards** | No. | No. | No. |

**Additional information**

**DOT Classification** : **Reportable quantity** 2242.4 lbs / 1018 kg [257.85 gal / 976.08 L]. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** : **Emergency schedules** F-E, _S-E_
**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.

**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.

## Section 15. Regulatory information

**U.S. Federal regulations** :

**TSCA 5(a)2 final significant new use rules:** No products found.

**TSCA 5(e) substance consent order:** No products found.

**TSCA 8(a) PAIR**: Siloxanes and Silicones, di-Me, reaction products with silica; N,N-dimethylaniline; decamethylcyclopentasiloxane; octamethylcyclotetrasiloxane; 2-methoxy-1-methylethyl acetate

**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

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

**Clean Water Act (CWA) 307**: ethylbenzene; benzene; toluene

**Clean Water Act (CWA) 311**: styrene; ethylbenzene; benzene; toluene

**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

# Section 15. Regulatory information

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

**Composition/information on ingredients**

| Name | % | EHS | SARA 302 TPQ (lbs) | SARA 302 TPQ (gallons) | SARA 304 RQ (lbs) | SARA 304 RQ (gallons) |
|---|---|---|---|---|---|---|
| 1,4-dihydroxybenzene | <0.1 | Yes. | 500 / 10000 | - | 100 | - |

**SARA 304 RQ** : 105330.8 lbs / 47820.2 kg [12111.9 gal / 45848.7 L]

**SARA 311/312**

**Classification** : FLAMMABLE LIQUIDS - Category 3
SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

**Composition/information on ingredients**

| Name | % | Classification |
|---|---|---|
| styrene | ≥25 - ≤50 | FLAMMABLE LIQUIDS - Category 3<br>ACUTE TOXICITY (inhalation) - Category 4<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 1B<br>TOXIC TO REPRODUCTION - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1<br>ASPIRATION HAZARD - Category 1 |
| ethylbenzene | <1 | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>ASPIRATION HAZARD - Category 1 |
| N,N-dimethylaniline | ≤0.3 | ACUTE TOXICITY (oral) - Category 3<br>ACUTE TOXICITY (dermal) - Category 3<br>ACUTE TOXICITY (inhalation) - Category 3<br>CARCINOGENICITY - Category 2 |
| cobalt bis(2-ethylhexanoate) | ≤0.3 | EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1A<br>CARCINOGENICITY - Category 2<br>TOXIC TO REPRODUCTION - Category 1B |

**SARA 313**

# Section 15. Regulatory information

| | Product name | CAS number | % |
|---|---|---|---|
| **Form R - Reporting requirements** | styrene<br>ethylbenzene<br>cobalt bis(2-ethylhexanoate) | 100-42-5<br>100-41-4<br>136-52-7 | ≥25 - ≤50<br><1<br>≤0.3 |
| **Supplier notification** | styrene<br>ethylbenzene<br>cobalt bis(2-ethylhexanoate) | 100-42-5<br>100-41-4<br>136-52-7 | ≥25 - ≤50<br><1<br>≤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.

## State regulations

**Massachusetts** : The following components are listed: STYRENE

**New York** : The following components are listed: Styrene

**New Jersey** : The following components are listed: STYRENE MONOMER; ETHYL BENZENE; COBALT compounds

**Pennsylvania** : The following components are listed: BENZENE, ETHENYL-

## California Prop. 65

⚠ **WARNING**: This product can expose you to chemicals including Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Styrene and Ethylbenzene, which are known to the State of California to cause cancer, and Ethylene Glycol and Toluene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

| Ingredient name | No significant risk level | Maximum acceptable dosage level |
|---|---|---|
| styrene | Yes. | - |
| ethylbenzene | Yes. | - |
| ethanediol | - | Yes. |
| benzene | Yes. | Yes. |
| toluene | - | Yes. |

## Inventory list

**Australia** : Not determined.

**Canada** : At least one component is not listed.

**China** : Not determined.

**Eurasian Economic Union** : **Russian Federation inventory**: Not determined.

**Japan** : **Japan inventory (CSCL)**: Not determined.
**Japan inventory (ISHL)**: Not determined.

**New Zealand** : Not determined.

**Philippines** : Not determined.

**Republic of Korea** : Not determined.

**Taiwan** : Not determined.

**Thailand** : Not determined.

**Turkey** : Not determined.

**United States** : All components are active or exempted.

**Viet Nam** : Not determined.

# Section 16. Other information

**Procedure used to derive the classification**

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS - Category 3 | On basis of test data |
| SKIN IRRITATION - Category 2 | Calculation method |
| EYE IRRITATION - Category 2A | Calculation method |
| SKIN SENSITIZATION - Category 1 | Calculation method |
| CARCINOGENICITY - Category 1B | Calculation method |
| TOXIC TO REPRODUCTION - Category 1B | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 | Calculation method |

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**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)
N/A = Not available
SGG = Segregation Group
UN = United Nations

**Indicates information that has changed from previously issued version.**

**Notice to reader**

IMPORTANT NOTE: the information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates.

Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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