

SAFETY DATA SHEET

P60-LC BASE GREEN

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Section 1. Identification

GHS product identifier : P60-LC BASE GREEN
SDS code : 21660000B

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

Identified uses

Professional use
 Industrial use

Uses advised against

All other uses

Product use : Two component coating for interior use.

Supplier's details

MAPAERO SAS
 10, Avenue de la Rijole CS30098
 09103 PAMIERS Cedex
 France

e-mail address : PSRA_PAMIERS@akzonobel.com

Emergency telephone number (with hours of operation) : +33 (0)5 34 01 34 01
 +33 (0)5 61 60 23 30

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview

Liquid.
 Green.
 Characteristic.
 Flammable liquid and vapor.
 May be harmful if swallowed.
 Causes skin irritation.
 May cause an allergic skin reaction.
 Causes serious eye irritation.
 Harmful if inhaled.
 May cause respiratory irritation.
 May cause drowsiness or dizziness.
 May cause genetic defects.
 May cause cancer.
 Suspected of damaging fertility or the unborn child.
 Toxic to aquatic life.

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Section 2. Hazards identification

Toxic to aquatic life with long lasting effects.

IF exposed or concerned: Get medical advice or attention. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention.

See Section 12 for environmental precautions.

Classification of the substance or mixture

- : FLAMMABLE LIQUIDS - Category 3
- ACUTE TOXICITY (oral) - Category 5
- ACUTE TOXICITY (inhalation) - Category 4
- SKIN CORROSION/IRRITATION - Category 2
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
- SKIN SENSITIZATION - Category 1
- GERM CELL MUTAGENICITY - Category 1B
- CARCINOGENICITY - Category 1A
- TOXIC TO REPRODUCTION - Category 2
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
- SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
- AQUATIC HAZARD (ACUTE) - Category 2
- AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

- : H226 - Flammable liquid and vapor.
- H303 - May be harmful if swallowed.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H340 - May cause genetic defects.
- H350 - May cause cancer.
- H361 - Suspected of damaging fertility or the unborn child.
- H401 - Toxic to aquatic life.
- H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

- : P201 - Obtain special instructions before use.
- P280 - Wear protective gloves, protective clothing and eye or face protection.
- P210 - Keep away from heat, sparks and hot surfaces. No smoking.
- P241 - Use explosion-proof electrical, ventilating or lighting equipment.
- P242 - Use non-sparking tools.
- P243 - Take action to prevent static discharges.
- P273 - Avoid release to the environment.
- P261 - Avoid breathing vapor.
- P264 - Wash hands thoroughly after handling.

Section 2. Hazards identification

- Response** : P391 - Collect spillage.
P308 + P313 - IF exposed or concerned: Get medical advice or attention.
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P302 + P352 - IF ON SKIN: Wash with plenty of water.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice or attention.
- Storage** : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Keep cool.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Physical and chemical hazards : Flammable liquid and vapor.

Health hazards : May be harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child.

Environmental hazards : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification : None known.

Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

| Ingredient name | % | CAS number |
|--|-----------|------------|
| butan-2-ol | ≥10 - ≤25 | 78-92-2 |
| strontium chromate | ≥10 - ≤20 | 7789-06-2 |
| Amines, polyethylenepoly-, triethylenetetramine fraction | <3 | 90640-67-8 |
| Terphenyl, hydrogenated | ≤3 | 61788-32-7 |
| zinc oxide | ≤3 | 1314-13-2 |
| barium chromate | <1 | 10294-40-3 |
| propylidynetrimethanol | ≤0.3 | 77-99-6 |

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 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. 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** : 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** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May be harmful if swallowed. Can cause central nervous system (CNS) depression.

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
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
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** : 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. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
phosphorus oxides
halogenated compounds
metal oxide/oxides
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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 ingest. Avoid breathing vapor or mist. Avoid release to the environment. 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 |
|-------------------------|--|
| butan-2-ol | ACGIH TLV (United States, 1/2022). TWA: 303 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. |
| strontium chromate | GBZ 2.1 (China, 8/2019). [Chromium trioxide \ chromate \ dichromate] Skin sensitizer. Notes: as Cr PC-TWA: 0.05 mg/m ³ , (as Cr) 8 hours. |
| Terphenyl, hydrogenated | ACGIH TLV (United States, 1/2022). [Hydrogenated terphenyls] TWA: 0.5 ppm 8 hours. TWA: 4.9 mg/m ³ 8 hours. |
| barium chromate | GBZ 2.1 (China, 8/2019). [Chromium trioxide \ chromate \ dichromate] Skin sensitizer. Notes: as Cr PC-TWA: 0.05 mg/m ³ , (as Cr) 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.
- The recommended mask and the minimum required protection factors depend on the specific activity, and are described in the paragraph "Exposure Scenario information" below.
- Exposure Scenario information** : Relevant Information from Exposure Scenario:
- The following Operational Conditions and Risk Management Measures are to be respected:
- During preparation and/or mixing of the product, loading of paint to the application equipment, cleaning and/or maintenance of application equipment:
- Wear chemical resistant gloves with a minimum protection factor of 90%
- During manual spraying of the product:
- Duration of treatment/exposure : maximum 6h/shift
 - Use of a walk-in spray booth with negative pressure
 - A Respiratory Protection Device (RPD) with APF 1000 or higher must be used, the Work Related Protection factor (WPF) has to be verified to exceed 1000 for each worker whichever RPD is used.
 - Use Chemical Resistant Gloves (tested to EN374) in combination with intensive management supervision controls and training (efficacy 99%)
- During manual stripping of coatings with abrasive techniques (e.g. sanding, deburring) and dust removal (cleaning of sanding/deburring area):
- Duration of treatment/exposure maximum 0.25h/shift
 - Integrated LEV, humidity used to reduce dust (efficacy assumed to be 70%)
 - A Respiratory Protection Device (RPD) with APF 40 or higher is used
- During waste management of stripped paint or sealant:
- Duration of treatment/exposure max 1 hour/shift
 - LEV with an efficiency of 78% or higher plus vacuum cleaner (efficiency 80% or higher)
 - A Respiratory Protection Device (RPD) with APF 40 or higher is 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 | : Green. |
| Odor | : Characteristic. |
| Odor threshold | : Not available. |
| pH | : Not applicable. [DIN EN 1262] |
| Melting point/freezing point | : Not available. |
| Boiling point, initial boiling point, and boiling range | : Not available. |
| Flash point | : Closed cup: 25°C (77°F) [Pensky-Martens] |
| Flammability | : Not available. |
| Lower and upper explosion limit/flammability limit | : Not available. |
| Vapor pressure | : |

| Ingredient name | Vapor Pressure at 20°C | | | Vapor pressure at 50°C | | |
|--|------------------------|----------|--------------------|------------------------|-----|--------|
| | mm Hg | kPa | Method | mm Hg | kPa | Method |
| butan-2-ol | 12.75 | 1.7 | | | | |
| butan-1-ol | <7.5 | <1 | DIN EN 13016-2 | | | |
| octamethylcyclotetrasiloxane | 0.99 | 0.13 | | | | |
| decamethylcyclopentasiloxane | 0.25 | 0.033 | | | | |
| propane-1,2-diol | 0.15 | 0.02 | EU A.4 | | | |
| aluminium hydroxide | <0.075 | <0.01 | | | | |
| 2,4,6-tris(dimethylaminomethyl) phenol | 0.056 | 0.0075 | EU A.4 | | | |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 0.0026 | 0.00035 | OECD 104 | | | |
| triphenyl phosphite | 0.00052 | 0.000069 | EU A.4 | | | |
| Terphenyl, hydrogenated | 0 | 0 | EPA OPPTS 830.7950 | | | |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | 0 | 0 | EU A.4 | | | |
| propylidynetrimethanol | 0 | 0 | | | | |
| Volatile, harmless liquid, n.o.s. | 0 | 0 | | | | |

| | |
|-------------------------------|---|
| Relative vapor density | : Not available. |
| Density | : 1.528 g/cm ³ [DIN EN ISO 2811-1] |
| Solubility(ies) | : |

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

| | |
|---|-------------------|
| Partition coefficient: n-octanol/water | : Not applicable. |
| Auto-ignition temperature | : |

Section 9. Physical and chemical properties and safety characteristics

| Ingredient name | °C | °F | Method |
|---|------------|----------------|---------------|
| 8,18-dichloro-5,15-diethyl-5,15-dihydrodiindolo[3,2-b:3',2'-m]triphenodioxazine | 250 | 482 | |
| Naphtha (petroleum), hydrodesulfurized heavy | 280 to 470 | 536 to 878 | |
| Solvent naphtha (petroleum), light arom. | 280 to 470 | 536 to 878 | |
| butan-1-ol | 355 | 671 | EU A.15 |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper | 356 | 672.8 | EU A.16 |
| propane-1,2-diol | 371 | 699.8 | |
| decamethylcyclopentasiloxane | 372 | 701.6 | ASTM E 659-78 |
| Terphenyl, hydrogenated | 374 | 705.2 | |
| butan-2-ol | 377 | 710.6 | |
| 2,4,6-tris(dimethylaminomethyl)phenol | 382 | 719.6 | EU A.15 |
| octamethylcyclotetrasiloxane | 384 to 387 | 723.2 to 728.6 | ASTM E 659 |
| triphenyl phosphite | >400 | >752 | EU A.15 |

Decomposition temperature : Not available.

Viscosity : Kinematic (room temperature): 360 mm²/s (360 cSt) [DIN EN ISO 3219]
Kinematic (40°C (104°F)): 101 mm²/s (101 cSt) [DIN EN ISO 3219]

Particle characteristics

Median particle size : Not applicable.

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 | |
|-------------------------|-----------------------|---------------------------------|-------------------------|------------|---------|
| butan-2-ol | LC50 Inhalation Gas. | Rat | 8000 ppm | 4 hours | |
| | LC50 Inhalation Vapor | Rat | 48500 mg/m ³ | 4 hours | |
| | LD50 Intraperitoneal | Guinea pig | 1067 mg/kg | - | |
| | LD50 Intraperitoneal | Mouse | 771 mg/kg | - | |
| | LD50 Intraperitoneal | Rabbit | 277 mg/kg | - | |
| | LD50 Intraperitoneal | Rat | 1193 mg/kg | - | |
| | LD50 Intravenous | Mouse | 764 mg/kg | - | |
| | LD50 Intravenous | Rat | 138 mg/kg | - | |
| | LD50 Oral | Rabbit | 4893 mg/kg | - | |
| | LD50 Oral | Rabbit | 4890 mg/kg | - | |
| | LD50 Oral | Rat | 2193 mg/kg | - | |
| | LD50 Oral | Rat | 2054 mg/kg | - | |
| | strontium chromate | LC50 Inhalation Dusts and mists | Rat | 0.27 mg/l | 4 hours |
| | | LD50 Intratracheal | Rat | 16.6 mg/kg | - |
| LD50 Oral | | Rat | 3118 mg/kg | - | |
| Terphenyl, hydrogenated | LD50 Oral | Mouse | 12500 mg/kg | - | |
| | LD50 Oral | Rat | 17500 mg/kg | - | |
| | LD50 Oral | Rat | >24000 mg/kg | - | |
| | LD50 Oral | Rat | >10000 mg/kg | - | |
| zinc oxide | LD50 Intraperitoneal | Rat | 240 mg/kg | - | |
| | LD50 Oral | Mouse | 7950 mg/kg | - | |
| propylidynetrimethanol | LD50 Oral | Mouse | 13700 mg/kg | - | |
| | LD50 Oral | Mouse | 14000 mg/kg | - | |
| | LD50 Oral | Rat | 14100 mg/kg | - | |
| | LD50 Oral | Rat | 14000 mg/kg | - | |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--------------------------|------------------------|---------|-------|-----------------|-------------|
| butan-2-ol zinc oxide | Eyes - Severe irritant | Rabbit | - | 0.1 MI | - |
| | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

| Product/ingredient name | IARC |
|-------------------------|------|
| strontium chromate | 1 |
| barium chromate | 1 |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

| Name | Category | Route of exposure | Target organs |
|--------------------|--------------------------|-------------------|--|
| butan-2-ol | Category 3 | - | Respiratory tract irritation |
| strontium chromate | Category 3 Category 3 | - | Narcotic effects Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|-----------------|------------|-------------------|-------------------------------|
| barium chromate | Category 1 | - | kidneys, respiratory tract |

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : May be harmful if swallowed. Can cause central nervous system (CNS) depression.

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
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
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

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Section 11. Toxicological information

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 : 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.

Reproductive toxicity : Suspected of damaging 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) |
|--|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| 82/21660000B-GRN_SBPR_P60LC | 3905.3 | 50400.9 | N/A | N/A | 2.5 |
| strontium chromate | 500 | N/A | N/A | N/A | 0.27 |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 500 | 1100 | N/A | N/A | N/A |
| barium chromate | 100 | 300 | N/A | N/A | 0.05 |

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---------------------------------------|--------------------------------------|----------|
| butan-2-ol | Acute EC50 4227 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| zinc oxide | Acute LC50 3670000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute EC50 1 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 0.622 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute EC50 0.481 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 1.25 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 98 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 3.969 mg/l Fresh water | Fish - Danio rerio - Adult | 96 hours |
| | Acute LC50 2.525 mg/l Fresh water | Fish - Danio rerio - Adult | 96 hours |
| propylidynetrimethanol | Acute LC50 1.1 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Acute LC50 2246000 µg/l Fresh water | Fish - Pimephales promelas - Neonate | 96 hours |
| | Acute EC50 13000000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 14400000 µg/l Marine water | Fish - Cyprinodon variegatus | 96 hours |

Section 12. Ecological information

Persistence/degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-------|-----------|
| butan-2-ol | 0.61 | - | low |
| Amines, polyethylenepoly-, triethylenetetramine fraction | -2.65 | - | low |
| Terphenyl, hydrogenated | - | 5200 | high |
| zinc oxide | - | 28960 | high |
| propylidynetrimethanol | -0.47 | <1 | low |

Mobility in soil





Soil/water partition coefficient (K_{oc}) : 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

| | China | 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 | Yes. The environmentally hazardous substance mark is not required. | Marine Pollutant(s): strontium chromate, Terphenyl, hydrogenated | Yes. The environmentally hazardous substance mark is not required. |

Additional information

IMDG : **Emergency schedules** F-E, _S-E_

Section 14. Transport information

Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5.

IMDG Code Segregation group Not applicable

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.

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

China inventory (IECSC) : Not determined.

List of Goods banned for Importing

None of the components are listed.

Drug Precursors Requiring an Import/Export License

None of the components are listed.

List of Explosive Precursors

None of the components are listed.

List of Goods banned for Exporting

None of the components are listed.

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

Catalogue and classification of drug precursor chemicals

None of the components are listed.

Inventory of Highly Toxic Articles

| Ingredient name | Status |
|--------------------|--------|
| strontium chromate | Listed |

Catalogue of Hazardous Chemicals of Priority Management

None of the components are listed.

Catalogue of Occupational Disease Hazard Factors - Dust

| Ingredient name | Status |
|--|--------|
| titanium dioxide | Listed |
| Talc , not containing asbestiform fibres | Listed |
| iron hydroxide oxide | Listed |
| Wollastonite | Listed |

Section 15. Regulatory information

Catalogue of Occupational Disease Hazard Factors - Chemical Factors

| Ingredient name | Status |
|--------------------|--------|
| strontium chromate | Listed |
| zinc oxide | Listed |

Section 16. Other information

Product code : 575830

History

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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

Procedure used to derive the classification

| Classification | Justification |
|--|-----------------------|
| FLAMMABLE LIQUIDS - Category 3 | On basis of test data |
| ACUTE TOXICITY (oral) - Category 5 | Calculation method |
| ACUTE TOXICITY (inhalation) - Category 4 | Calculation method |
| SKIN CORROSION/IRRITATION - Category 2 | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A | Calculation method |
| SKIN SENSITIZATION - Category 1 | Calculation method |
| GERM CELL MUTAGENICITY - Category 1B | Calculation method |
| CARCINOGENICITY - Category 1A | Calculation method |
| TOXIC TO REPRODUCTION - Category 2 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Calculation method |
| AQUATIC HAZARD (ACUTE) - Category 2 | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 2 | Calculation method |

☑ Indicates information that has changed from previously issued version.

Notice to reader

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IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product

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Section 16. Other information

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