# Zinc Peroxide

EAST HARBOUR GROUP

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

| | |
|---|---|
| Product name: | Zinc Peroxide, approximately 50% ZnO2 |
| CAS Number: | 1314-22-3 |
| EC Number: | 215-226-7 |
| Product code: | AB 208874 |

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

| | |
|---|---|
| Identified use: | Research, development, analysis and production. |

### 1.3 Details of the supplier of the safety data sheet

| | |
|---|---|
| **Company name:** | East Harbour Group Ltd<br>20 Clough Road, Severalls Industrial Park<br>Colchester, Essex, CO4 9QS<br>United Kingdom |
| **Telephone:** | +44 (0) 333 242 0100 |
| **Email:** | info@eastharbourgroup.com |

### 1.4 Emergency telephone number

| | |
|---|---|
| **Emergency telephone:** | 0800 246 1274 |

## Section 2: Hazardous identification

### 2.1 Classification of the substance or mixture

**Product definition** Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| | | |
|---|---|---|
| H271 | OXIDIZING SOLIDS | Category 1 |
| H315 | SKIN CORROSION/IRRITATION | Category 2 |
| H319 | SERIOUS EYE DAMAGE/ EYE IRRITATION | Category 2 |
| H400 | AQUATIC HAZARD (ACUTE) | Category 1 |
| H410 | AQUATIC HAZARD (LONG-TERM) | Category 1 |

### 2.2 Label elements

Pictograms

# Zinc Peroxide

Signal word: Danger

**Hazard statement(s)**

| | |
|---|---|
| H271 | May cause fire or explosion; strong oxidiser. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Precautionary statement(s)**

| | |
|---|---|
| P280 | Wear protective gloves. Wear eye or face protection. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273 | Avoid release to the environment. |
| 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. |

**Supplemental label elements**
Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.**
Not applicable.

**2.3 Other hazards**
**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

See Section 11 for more detailed information on health effects and symptoms.

## Section 3: Composition/information on ingredients

**Substance / mixture:** Mixture

| Product/ingredient name | Identifiers | % | Classification Regulation (EC) No. 1272/2008 [CLP] | Specific Conc. Limits, M-factors and ATEs | Type |
|---|---|---|---|---|---|
| Zinc peroxide | EC: 215-226-7<br>CAS: 1314-22-3 | ≥50 - ≤75 | Ox. Sol. 1, H271 Skin Irrit. 2, H315 Eye Irrit. 2, H319 | - | [1] |
| Zinc oxide | EC: 215-222-5<br>CAS: 1314-13-2 | ≥50 - ≤75 | Aquatic Acute 1, H400 Aquatic Chronic 1, | M [Acute] = 10<br>M [Chronic] = 10 | [1] |

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| | | | | | |
|---|---|---|---|---|---|
| | Index: 030-013-00-7 | | H410<br>**See Section 16 for the full text of the H statements declared above.** | | |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.
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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type
[1] Substance classified with a health or environmental hazard
Occupational exposure limits, if available, are listed in Section 8.

## Section 4: First aid measures

### 4.1 Description of first aid measures

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

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. 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** Rinse immediately contaminated clothing and skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** Wash out mouth with water. Remove dentures if any. 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 adverse health effects persist or are severe. 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.

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**Protection of first aiders** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**4.2 Most important symptoms and effects, both acute and delayed**

**Eye contact** Causes serious eye irritation.

**Inhalation** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**Skin contact** Causes skin irritation.

**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

**Skin contact** Adverse symptoms may include the following:
irritation
redness

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

## Section 5: Fire-fighting measures

**5.1 Fire Fighting Media and Instructions**:

**Suitable extinguishing media:** Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media:** None known.

**5.2 Special hazards arising from the substance or mixture**

**Hazards from the substance or mixture:** Strongly oxidizing material. May cause fire or explosion. This material is very 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 combustion products:** Decomposition products may include the following materials:
metal oxide/oxides

**5.3 Advice for firefighters**

**Special precautions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate the area. No

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| | |
|---|---|
| | 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. Fight fire from protected location or maximum possible distance. |
| **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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

| | |
|---|---|
| **For non-emergency personnel** | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| **For emergency responders** | If 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". |

### 6.2 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.

### 6.3 Methods and material for containment and cleaning up

| | |
|---|---|
| **Small spill** | Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| **Large spill** | Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal |

contractor.

**6.4 Reference to other sections**
See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

## Section 7: Handling and storage

**The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).**

**7.1 Precautions for safe handling**

| | |
|---|---|
| **Protective measures** | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Wear fire resistant clothing. Keep away from heat. 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 I nformation on hygiene measures. |

**7.2 Conditions for safe storage, including any incompatibilities**
Keep under an inert atmosphere.
Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from reducing agents and combustible materials. Store away from grease and oil. 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.

**Seveso Directive - Reporting thresholds**
**Danger criteria**

| Category | Notification and MAPP threshold | Safety report threshold |
|---|---|---|
| P8 | 50 tonnes | 200 tonnes |
| E1 | 100 tonnes | 200 tonnes |

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**7.3 Specific end use(s)**

**Recommendations** Not available.

**Industrial sector specific solutions** Not available

## Section 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limits**

No exposure limit value known.

**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Derived effect levels**

No DELs available

**Predicted effect concentrations**

No PECs available

**8.2 Exposure controls**

**Appropriate engineering controls**

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Individual protection measures**

**Hygiene measures**

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

**Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.

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**Skin protection**

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection**

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

**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.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical State** | Solid. [Powder.] |
| **Color** | White to yellowish. |
| **Odour** | Not available. |
| **Odour Threshold** | Not available. |
| **pH** | Not available. |
| **Melting Point/Range** | 212 C |
| **Boiling Point/Range** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | Not applicable. |
| **Flash Point** | Not applicable. |
| **Auto-ignition temperature** | Not applicable. |
| **Decomposition temperature** | Not available |
| **Viscosity** | Not applicable. |

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| | |
|---|---|
| **Solubility(ies)** | Not available. |
| **Solubility at room temperature** | Hydrolysis [H2O] |
| **Partition coefficient: n-octanol / water** | Not applicable. |
| **Vapor pressure** | Not available. |
| **Evaporation rate** | Not available. |
| **Relative density** | Not available. |
| **Density** | 1,57 g/cm³ [25°C] |
| **Vapor density** | Not applicable. |
| **Explosive properties** | Not available. |
| **Oxidizing properties** | Not available. |
| **Particle characteristics** | |
| **Median particle size** | Not available. |

**9.2 Other information**

| | |
|---|---|
| **Burning time** | Not available. |
| **Burning rate** | Not available. |

No additional information.

## Section 10: Stability and Reactivity

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

**10.2 Chemical Stability**
Moisture-sensitive material.
heat sensitive
Handle under inert gas.

**10.3 Possibility of hazardous reactions**
Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions may include the following:
Contact with combustible materials.
Reactions may include the following:
Risk of explosion

**10.4 Conditions to avoid**
Exposure to heat and moisture

**10.5 Incompatible materials**
Reactive or incompatible with the following materials:
Combustible materials
Reducing materials
Organic materials
Metal powder.

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

## Section 11: Toxicological Information

**Product Information**
**11.1 Toxicological effects:**

| | |
|---|---|
| **Acute toxicity** | |
| **Conclusion/Summary** | Not available. |
| **Acute toxicity estimates** | N/A |
| **Irritation/Corrosion** | |
| **Conclusion/Summary** | Not available. |
| **Sensitizer** | |
| **Conclusion/Summary** | Not available. |
| **Mutagenicity** | |
| **Conclusion/Summary** | Not available. |
| **Carcinogenicity** | |
| **Conclusion/Summary** | Not available. |
| **Reproductive toxicity** | |
| **Conclusion/Summary** | Not available. |
| **Teratogenicity** | |
| **Conclusion/Summary** | Not available. |
| **Information on the likely routes of exposure** | Not available. |
| **Potential acute health effects** | |
| **Inhalation** | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. |
| **Skin contact** | Causes skin irritation. |
| **Ingestion** | No known significant effects or critical hazards. |
| **Eye contact** | Causes serious eye irritation. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | |
| **Inhalation** | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing |
| **Ingestion** | No specific data. |
| **Skin contact** | Adverse symptoms may include the following: |

| | |
|---|---|
| | irritation<br>redness |
| **Eye contact** | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |

**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.

| | |
|---|---|
| **Conclusion/Summary** | Not available. |
| **General** | Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. |
| **Carcinogenicity** | No known significant effects or critical hazards. |
| **Mutagenicity** | No known significant effects or critical hazards. |
| **Teratogenicity** | No known significant effects or critical hazards. |
| **Developmental effects** | No known significant effects or critical hazards. |
| **Fertility effects** | No known significant effects or critical hazards. |

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Not available.

**11.2.2 Other information**

Not available.

## Section 12: Ecological Information

**12.1 Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Zinc oxide | Acute EC50 0,042 mg/l Fresh water<br><br>Acute LC50 98 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase<br>Daphnia - Daphnia magna – Neona | 72 hours<br><br>48 hours |

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| | | | |
|---|---|---|---|
| | Acute LC50 1,1 ppm Fresh water<br>Chronic NOEC 0,017 mg/l Fresh water | Fish - Oncorhynchus mykiss<br><br>Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 96 hours<br><br>72 hours |

**Conclusion/Summary** Not available.

**12.2 Persistence and degradability**
**Conclusion/Summary** Not available.

**12.3 Bioaccumulative potential**
Not available.

**12.4 Mobility in soil**
Soil/water partition coefficient ($K_{OC}$) Not available.
Mobility Not available.

**12.5 Results of PBT and vPvB assessment**
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties**
Not available.

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

## Section 13: Disposal considerations

**The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).**

**13.1 Waste treatment methods**

**Methods of disposal**
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.

**Hazardous waste**
The classification of the product may meet the criteria for a hazardous waste.

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**Packaging**

**Methods of disposal**

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions**

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

## Section 14: Transport Information

**14.1 UN Number or ID Number**

**ADR/RID:** 1516
**ADN:** 1516
**IMDG:** 1516
**IATA:** 1516

**14.2 UN proper shipping name**

**ADR/RID:** ZINC PEROXIDE
**ADN:** ZINC PEROXIDE
**IMDG:** ZINC PEROXIDE. Marine pollutant (zinc oxide)
**IATA:** Zinc peroxide

**14.3 Transport hazard class(es)**

| ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|
| 5.1  | 5.1  | 5.1  | 5.1  |

**14.4 Packing group**

**ADR/RID:** II
**ADN:** II
**IMDG:** II
**IATA:** II

**14.5 Environmental hazards**

**ADR/RID:** Yes
**ADN:** Yes
**IMDG:** Yes
**IATA:** Yes The environmentally hazardous substance mark is not required.

**14.6 Special precautions for user**

**ADR/RID:** 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.

**ADN:** 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

**IMDG:** 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.

**IATA:** 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.

**Additional information**

**ADR/RID:** The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Hazard identification number** 50 **Limited quantity** 1 kg **Tunnel code** (E)

**ADN:** The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IMDG:** The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-G, S-Q

**IATA:** The environmentally hazardous substance mark may appear if required by other transportation regulations**. Quantity limitation** Passenger and Cargo Aircraft: 5 kg. Packaging instructions: 558. Cargo Aircraft Only: 25 kg. Packaging instructions: 562. Limited Quantities - Passenger Aircraft: 2,5 kg. Packaging instructions: Y544.

**14.7 Transport in bulk according to IMO instruments**

Not available.

## Section 15: Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU Regulation (EC) No. 1907/2006 (REACH)**

**Annex XIV - List of substances subject to authorization**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

| | |
|---|---|
| **Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** | Not applicable. |

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**Other EU regulations**

| | |
|---|---|
| **Industrial emissions (integrated pollution prevention and control) - Air** | Not listed |
| **Industrial emissions (integrated pollution prevention and control) - Water** | Not listed |

**Ozone depleting substances (1005/2009/EU)**
Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**
Not listed.

**Persistent Organic Pollutants**
Not listed.

**Seveso Directive**
This product is controlled under the Seveso Directive.

**Danger criteria**
**Category**
P8
E1

**International regulations**
**Chemical Weapon Convention List Schedules I, II & III Chemicals**
Not listed.

**Montreal Protocol**
Not listed.

**Stockholm Convention on Persistent Organic Pollutants**
Not listed.

**Rotterdam Convention on Prior Informed Consent (PIC)**
Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**
Not listed.

**Inventory list**

| | |
|---|---|
| **China** | All components are listed or exempted. |
| **Canada** | All components are listed or exempted. |
| **Australia** | All components are listed or exempted. |

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| | |
|---|---|
| **Eurasian Economic Union** | **Russian Federation inventory:** Not determined. |
| **Japan** | **Japan inventory (CSCL):** All components are listed or exempted.<br>**Japan inventory (ISHL):** Not determined. |
| **New Zealand** | All components are listed or exempted. |
| **Philippines** | All components are listed or exempted. |
| **Republic of Korea** | All components are listed or exempted. |
| **Taiwan** | All components are listed or exempted. |
| **Thailand** | Not determined. |
| **Turkey** | Not determined. |
| **United States** | Not determined. |
| **Viet Nam** | Not determined. |

**15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

## Section 16: Other Information

**Abbreviations and acronyms**

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification | Justification |
|---|---|
| Ox. Sol. 1, H271 | Expert judgment |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| Aquatic Acute 1, H400 | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |

**Full text of abbreviated H statements**

| | |
|---|---|
| H271 | May cause fire or explosion, strong oxidizer. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |

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| | |
|---|---|
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Ox. Sol. 1 | OXIDIZING SOLIDS - Category 1 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |

**Full text of classifications [CLP/GHS]**

| | |
|---|---|
| Aquatic Acute 1 | AQUATIC HAZARD (ACUTE) - Category 1 |
| Aquatic Chronic 1 | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| Ox. Sol. 1 | OXIDIZING SOLIDS - Category 1 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |