

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

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : Hempel's Curing Agent 95881

Product identity : 9588100000

Product type : Curing agent

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

Field of application : used only as part of two- or multi component products.

Ready-for-use mixture : (see base component)

Identified uses : Industrial applications, Used by spraying.

1.3 Details of the supplier of the safety data sheet

Company details : **HEMPEL (CHINA) LTD.**
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Physical state : Liquid.

Odor : Solvent-like

Emergency overview

Flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

GHS Classification

FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
AQUATIC HAZARD (ACUTE) - Category 3
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

SECTION 2: Hazards identification

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H226 - Flammable liquid and vapor.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
H402 - Harmful to aquatic life.

Precautionary statements :

Prevention :

Obtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Do not breathe vapor, mist or spray. Wash thoroughly after handling.

Response :

If exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it 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 in a well-ventilated place. Keep cool.

Disposal :

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

Hazardous ingredients :

xylene
Methylstyrenated phenol
cyclohexanone
ethylbenzene
3,6-diazaoctanethylenediamin

Physical and chemical hazards

Flammable liquid and vapor.

Health hazards

Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

Harmful to aquatic life.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

| Product/ingredient name | Identifiers | % | GHS Classification |
|-------------------------|-------------|-----------|---|
| xylene | 1330-20-7 | ≥10 - ≤20 | FLAMMABLE LIQUIDS - Category 3 |
| Methylstyrenated phenol | 68512-30-1 | ≥10 - ≤22 | SKIN CORROSION/IRRITATION - Category 2 |
| cyclohexanone | 108-94-1 | ≥10 - ≤25 | AQUATIC HAZARD (ACUTE) - Category 2 |
| benzyl alcohol | 100-51-6 | ≥3 - ≤5 | SKIN CORROSION/IRRITATION - Category 2 |
| ethylbenzene | 100-41-4 | ≥3 - <4.5 | SKIN SENSITIZATION - Category 1B |
| | | | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| | | | FLAMMABLE LIQUIDS - Category 3 |
| | | | ACUTE TOXICITY (oral) - Category 4 |
| | | | ACUTE TOXICITY (inhalation) - Category 4 |
| | | | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A |
| | | | FLAMMABLE LIQUIDS - Category 2 |
| | | | CARCINOGENICITY - Category 2 |
| | | | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| | | | ASPIRATION HAZARD - Category 1 |
| | | | AQUATIC HAZARD (ACUTE) - Category 2 |

SECTION 3: Composition/information on ingredients

| | | | |
|------------------------------|----------|-----------|--|
| 3,6-diazaoctanethylenediamin | 112-24-3 | ≥1 - ≤2.3 | SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 |
|------------------------------|----------|-----------|--|

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

4.1 Description of first aid measures

| | |
|------------------------------|---|
| General : | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| Eye contact : | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention. |
| Inhalation : | Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and get medical attention immediately. |
| Skin contact : | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. |
| Ingestion : | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat. |
| 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. |

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

| | |
|----------------|--|
| Eye contact : | Causes serious eye damage. |
| Inhalation : | No known significant effects or critical hazards. |
| 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 watering redness |
| Inhalation : | No specific data. |
| Skin contact : | Adverse symptoms may include the following: pain or irritation redness blistering may occur |
| Ingestion : | Adverse symptoms may include the following: stomach pains |

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|-----------------------|--|
| Notes to physician : | If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments : | No specific treatment. |

SECTION 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media : Recommended: alcohol resistant foam, CO₂, powders, water spray.
Not to be used: waterjet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : 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 combustion products : Decomposition products may include the following materials: carbon oxides nitrogen oxides

5.3 Advice for firefighters

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. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. 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

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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).

6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilled product.

Prevention of secondary hazards:

Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Put on appropriate personal protective equipment.

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

7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.
Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

SECTION 7: Handling and storage

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Product/ingredient name | Exposure limit values |
|---|--|
| xylene cyclohexanone ethylbenzene | GBZ 2.1 (China, 8/2019). PC-TWA: 50 mg/m ³ 8 hours. PC-STEL: 100 mg/m ³ 15 minutes. GBZ 2.1 (China, 8/2019). Absorbed through skin. PC-TWA: 50 mg/m ³ 8 hours. GBZ 2.1 (China, 8/2019). PC-STEL: 150 mg/m ³ 15 minutes. PC-TWA: 100 mg/m ³ 8 hours. |

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 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) 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.

8.2 Exposure controls

Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Individual protection measures

General :

Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.



Hygiene measures :

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection :

Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.

Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:

Short term exposure: neoprene rubber, natural rubber (latex), polyvinyl chloride (PVC)
 Recommended: polyvinyl alcohol (PVA), Silver Shield / Barrier / 4H gloves, Viton®
 May be used: butyl rubber, nitrile rubber

Body protection :

Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.
 Wear suitable protective clothing. Always wear protective clothing when spraying.

Respiratory protection :

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent.

SECTION 8: Exposure controls/personal protection

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

| | |
|--|---|
| Physical state : | Liquid. |
| Odor : | Solvent-like |
| pH : | Testing not relevant or not possible due to nature of the product. |
| Melting point/freezing point : | Testing not relevant or not possible due to nature of the product. |
| Boiling point/boiling range : | Testing not relevant or not possible due to nature of the product. |
| Flash point : | Closed cup: 43°C (109.4°F) |
| Evaporation rate : | Testing not relevant or not possible due to nature of the product. |
| Flammability : | Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| Lower and upper explosive (flammable) limits : | 0.8 - 13 vol % |
| Vapor pressure : | Testing not relevant or not possible due to nature of the product. |
| Vapor density : | Testing not relevant or not possible due to nature of the product. |
| Specific gravity : | 0.969 g/cm ³ |
| Solubility(ies) : | Partially soluble in the following materials: cold water and hot water. |
| Partition coefficient (LogKow) : | Testing not relevant or not possible due to nature of the product. |
| Auto-ignition temperature : | Lowest known value: 337.78°C (640°F) (3,6-diazaoctanethylenediamin). |
| Decomposition temperature : | Testing not relevant or not possible due to nature of the product. |
| Viscosity : | Testing not relevant or not possible due to nature of the product. |
| Explosive properties : | Slightly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| Oxidizing properties : | Testing not relevant or not possible due to nature of the product. |

9.2 Other information

| | |
|---------------------------|---|
| Solvent(s) % by weight : | Weighted average: 36 % |
| Water % by weight : | Weighted average: 0 % |
| VOC content : | 16.8 g/l |
| VOC content - Hong Kong : | 16.8 g/l |
| TOC Content : | Weighted average: 270 g/l |
| Solvent Gas : | Weighted average: 0.081 m ³ /l |

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

The product is stable.

10.3 Possibility of hazardous reactions

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

10.4 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.

10.5 Incompatible materials

SECTION 10: Stability and reactivity

Extremely reactive or incompatible with the following materials: acids.
Highly reactive or incompatible with the following materials: oxidizing materials.
Reactive or incompatible with the following materials: reducing materials and organic materials.

10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides nitrogen oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

Direct contact with the eyes can cause irreversible damage, including blindness.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|---------------------------------|---------|-------------------------|----------|
| Xylene | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LC50 Inhalation Vapor | Rat | 6350 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >4200 mg/kg | - |
| | LD50 Oral | Rat | 3523 mg/kg | - |
| Methylstyrenated phenol | LC50 Inhalation Dusts and mists | Rat | >5 mg/l | 4 hours |
| cyclohexanone | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LC50 Inhalation Vapor | Rat | 11 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 1100 mg/kg | - |
| | LD50 Oral | Rat | 1620 mg/kg | - |
| benzyl alcohol | LDLo Oral | Rabbit | 1600 mg/kg | - |
| | LC50 Inhalation Dusts and mists | Rat | >4178 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 1230 mg/kg | - |
| ethylbenzene | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | 3500 mg/kg | - |
| 3,6-diazaoctanethylenediamin | LD50 Dermal | Rabbit | 550 mg/kg | - |
| | LD50 Oral | Rat | 1716 mg/kg | - |

Acute toxicity estimates

| Route | ATE value |
|---------------------|----------------|
| Oral | 10619.53 mg/kg |
| Dermal | 3834.33 mg/kg |
| Inhalation (gases) | 29644.57 ppm |
| Inhalation (vapors) | 62.61 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure |
|------------------------------|-----------------------------|---------|-------|-------------------------|
| Xylene | Eyes - Severe irritant | Rabbit | - | 24 hours 5 milligrams |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams |
| Methylstyrenated phenol | Eyes - Mild irritant | Rabbit | - | - |
| | Skin - Irritant | Rabbit | - | - |
| cyclohexanone | Eyes - Severe irritant | Rabbit | - | 24 hours 250 Micrograms |
| | Skin - Irritant | Rabbit | - | - |
| benzyl alcohol | Eyes - Visible necrosis | Rabbit | - | - |
| | Skin - Mild irritant | Rabbit | - | - |
| ethylbenzene | Skin - Mild irritant | Rabbit | - | 24 hours 15 milligrams |
| | Respiratory - Mild irritant | Rabbit | - | - |
| 3,6-diazaoctanethylenediamin | Eyes - Mild irritant | Rabbit | - | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 milligrams |
| | Skin - Severe irritant | Rabbit | - | 24 hours 5 milligrams |

Sensitizer

| Product/ingredient name | Route of exposure | Species | Result |
|------------------------------|-------------------|------------|-------------|
| 3,6-diazaoctanethylenediamin | skin | Guinea pig | Sensitizing |

Specific target organ toxicity (repeated exposure)

SECTION 11: Toxicological information

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential chronic health effects

Sensitization : Contains Methylstyrenated phenol, 3,6-diazaoctanethylenediamin. May produce an allergic reaction.

Other information : No additional known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Do not allow to enter drains or watercourses.

| Product/ingredient name | Result | Species | Exposure |
|------------------------------|-------------------------------------|---|----------|
| Methylstyrenated phenol | Acute EC50 15 mg/l | Algae | 72 hours |
| | Acute EC50 14 - 51 mg/l | Daphnia | 48 hours |
| cyclohexanone | Acute EC50 25.8 mg/l | Fish | 96 hours |
| | Acute EC50 800 mg/l | Daphnia | 24 hours |
| benzyl alcohol | Acute LC50 527 - 732 mg/l | Fish | 96 hours |
| | Acute EC50 230 mg/l | Daphnia | 48 hours |
| | Acute IC50 770 mg/l | Algae | 72 hours |
| ethylbenzene | Acute LC50 460 mg/l | Fish | 96 hours |
| 3,6-diazaoctanethylenediamin | Chronic NOEC <1000 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 20 mg/l | Algae | 72 hours |
| | Acute EC50 31.1 mg/l | Daphnia | 48 hours |
| | Acute LC50 330 mg/l | Fish | 96 hours |

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|------|--------------------------------|------|----------|
| xylene | - | >60 % - Readily - 28 days | - | - |
| cyclohexanone | - | 90 - 100 % - Readily - 28 days | - | - |
| benzyl alcohol | - | 95 - 97 % - Readily - 21 days | - | - |
| | - | 92 - 96 % - Readily - 14 days | - | - |
| ethylbenzene | - | >70 % - Readily - 28 days | - | - |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| xylene | - | - | Readily |
| Methylstyrenated phenol | - | - | Not readily |
| cyclohexanone | - | - | Readily |
| benzyl alcohol | - | - | Readily |
| ethylbenzene | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|------------------------------|--------------------|------------|-----------|
| xylene | 3.12 | 8.1 - 25.9 | low |
| Methylstyrenated phenol | 3.627 | - | low |
| cyclohexanone | 0.86 | - | low |
| benzyl alcohol | 0.87 | 1.37 | low |
| ethylbenzene | 3.6 | - | low |
| 3,6-diazaoctanethylenediamin | -1.66 - -1.4 | - | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : No known data available in our database.

Mobility : No known data available in our database.

SECTION 13: Disposal considerations

13.1 Waste treatment methods




The generation of waste should be avoided or minimized wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

Packaging

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.

SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

| | 14.1 UN no. | 14.2 Proper shipping name | 14.3 Transport hazard class(es) | 14.4 PG* | 14.5 Env* | Additional information |
|-------------------|----------------|------------------------------|--|-------------|--------------|-------------------------------------|
| UN Class | UN1263 | PAINT | 3  | III | No. | - |
| IMDG Class | UN1263 | PAINT | 3  | III | No. | <u>Emergency schedules</u> F-E, S-E |
| IATA Class | UN1263 | PAINT | 3  | III | No. | - |

PG* : Packing group

Env.* : Environmental hazards

14.6 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.

14.7 Transport in bulk according to IMO instruments

Not applicable.


SECTION 15: Regulatory information

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

List of Goods banned for Importing

None of the components are listed.

Inventory of Hazardous Chemicals

 xylene
 ethylbenzene
 3,6-diazaoctanethylenediamin
 2-phenylpropene
 phenol
 α-chlorotoluene
 cyclohexanone

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.

Inventory of Highly Toxic Articles

None of the components are listed.

Catalogue of Hazardous Chemicals of Priority Management


 phenol

SECTION 16: Other information

Abbreviations and acronyms :

ATE = Acute Toxicity Estimate
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
DNEL = Derived No Effect Level
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association
CAS = Chemical Abstracts Service
LC50 = Median lethal concentration
EC50 = Half maximal effective concentration
LD50 = Median lethal dose

GHS Classification

| Classification | Justification |
|---|---|
|  FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 AQUATIC HAZARD (ACUTE) - Category 3 | On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method |

Notice to reader

 Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical performance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.