

SAFETY DATA SHEET

CUROX®CC-DC



Version 4.0 Revision Date: 2024/11/06 SDS Number: 600000000033 Date of last issue: 2024/06/17
Date of first issue: 2018/06/21

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : CUROX®CC-DC

Supplier's company name, address and phone number

Company name of supplier : United Initiators GmbH
Address : Dr.-Gustav-Adolph-Str. 3
82049 Pullach
E-mail address : contact@united-in.com
Emergency telephone number : +49 / 89 / 74422 – 0 (24 h)

Recommended use of the chemical and restrictions on use

Recommended use : polymerisation initiators
Fire retardant


2. HAZARDS IDENTIFICATION

GHS classification of chemical product

Skin sensitisation : Sub-category 1B

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protec-

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tion/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Chemical nature : Solid organic
Substance name : 1,1'-(1,1,2,2-tetramethylethylene)dibenzene
CAS-No. : 1889-67-4

Components

| Chemical name | CAS-No. | Concentration (% w/w) | ENCS/ISHL number |
|---|-----------|-----------------------|------------------|
| 1,1'-(1,1,2,2-tetramethylethylene)dibenzene | 1889-67-4 | >= 90 - < 95 | 4-945 |

4. FIRST AID MEASURES

General advice : Take off contaminated clothing and shoes immediately.
Call a physician immediately.
Never give anything by mouth to an unconscious person.
If unconscious, place in recovery position and seek medical advice.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Administer oxygen if breathing is difficult or cyanosis is observed.
If breathed in, move person into fresh air.

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- If not breathing, give artificial respiration.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If symptoms persist, call a physician.
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash contaminated clothing before re-use.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.
Keep respiratory tract clear.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Suspected of damaging fertility. Suspected of damaging the unborn child.
sensitising effects
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : Treat symptomatically and supportively.
-

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Do not use a solid water stream as it may scatter and spread fire.
Remove undamaged containers from fire area if it is safe to do so.
Use water spray to cool unopened containers.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Follow safe handling advice and personal protective equipment recommendations.
Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Treat recovered material as described in the section "Disposal considerations".

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Clear spills immediately.
To clean the floor and all objects contaminated by this material, use plenty of water.
Soak up with inert absorbent material.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

7. HANDLING AND STORAGE

Handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on protection against fire and explosion : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.

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Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Provide sufficient air exchange and/or exhaust in work rooms.
Smoking, eating and drinking should be prohibited in the application area.
Wash thoroughly after handling.
For personal protection see section 8.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Avoidance of contact : No data available

Hygiene measures : Avoid contact with skin, eyes and clothing.
Keep away from food and drink.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.

Storage

Conditions for safe storage : Observe label precautions.
Store in accordance with the particular national regulations.
Electrical installations / working materials must comply with the technological safety standards.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature : < 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Contains no substances with occupational exposure limit values.

Engineering measures : Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : Filter type P

Hand protection

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Material : butyl-rubber
Break through time : 480 min
Glove thickness : 0.47 mm

Material : Nitrile rubber
Break through time : 480 min
Glove thickness : 0.40 mm

Remarks : The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Ensure that eyewash stations and safety showers are close to the workstation location.
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Wear as appropriate:
Flame retardant antistatic protective clothing.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : flakes

Colour : white

Odour : bitter almond

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Odour Threshold : No data available

Melting point/freezing point : 106 °C
(10 hPa)
Method: OECD Test Guideline 102

Boiling point/boiling range : 154 °C

Lower explosion limit and upper explosion limit / flammability limit
Upper explosion limit / Upper flammability limit : Upper explosion limit
Not applicable

Lower explosion limit / Lower flammability limit : Lower explosion limit
Not applicable

Flash point : Not applicable

Self-ignition : The substance or mixture is not classified as pyrophoric.

pH : substance/mixture is non-soluble (in water)

Evaporation rate : Not applicable

Bulk density : ca. 380 kg/m³ (20 °C)
Method: ISO 697

Auto-ignition temperature : not determined

Viscosity
Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Solubility(ies)
Water solubility : 0.08 g/l insoluble (20 °C)

Solubility in other solvents : soluble
Solvent: toluene

soluble
Solvent: Alcohol

Partition coefficient: n-octanol/water : log Pow: > 6.5 (25 °C)
The value is calculated

Vapour pressure : 0.0003 hPa (25 °C)

Density and / or relative density
Relative density : not determined

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| Density | : | not determined |
| Relative vapour density | : | not determined |
| Explosive properties | : | Not explosive Avoid dust formation. |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
| Self-heating substances | : | The substance or mixture is not classified as self heating. |
| Molecular weight | | ca.238.2 g/mol |
| Particle characteristics | | |
| Particle size | : | not determined |
| Particle Size Distribution | : | No data available |

10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|---|
| Reactivity | : | Stable under recommended storage conditions. |
| Chemical stability | : | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions. Dust may form explosive mixture in air. |
| Conditions to avoid | : | No data available |
| Incompatible materials | : | No data available |
| Hazardous decomposition products | : | Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity Remarks: No mortality observed at this dose. |
| Acute inhalation toxicity | : | Remarks: No data available |
| Acute dermal toxicity | : | LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal |

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toxicity

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Remarks : May cause skin irritation in susceptible persons.

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Remarks : Product dust may be irritating to eyes, skin and respiratory system.

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Species : Rabbit

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Result : No eye irritation
Method : OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : The product is a skin sensitiser, sub-category 1B.

Remarks : Causes sensitisation.

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Exposure routes : Skin contact
Species : Mouse
Method : OECD Test Guideline 429
Result : The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

Not classified due to lack of data.

Product:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosomal aberration
Test system: Chinese hamster cells
Method: OECD Test Guideline 473
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Remarks: Not classified
Not classified due to data which are conclusive although insufficient for classification.

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Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosomal aberration
Test system: Chinese hamster cells
Method: OECD Test Guideline 473
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Remarks: Not classified
Not classified due to data which are conclusive although insufficient for classification.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

Product:

Effects on fertility : Species: Rat
Strain: wistar
Application Route: Oral
General Toxicity - Parent: NOAEL: 10 mg/kg body weight
General Toxicity F1: NOAEL: 30 mg/kg body weight
Fertility: NOAEL Parent: 30 mg/kg body weight
Method: OECD Test Guideline 422

Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 15 mg/kg bw/day
General Toxicity F1: NOAEL: 15 mg/kg bw/day
Method: OECD Test Guideline 443
GLP: yes

Species: Rat
Application Route: Oral
Fertility: NOAEL: 15 mg/kg bw/day
Method: OECD Test Guideline 443
GLP: yes

Species: Rat
Application Route: Oral

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|------------------------------------|---|
| Effects on foetal development | Fertility: NOAEL F1: 50 mg/kg bw/day Method: OECD Test Guideline 443 GLP: yes |
| | : Species: Rat Strain: wistar Application Route: Oral General Toxicity Maternal: NOAEL: 10 mg/kg body weight Developmental Toxicity: NOAEL: 10 mg/kg body weight Method: OECD Test Guideline 414 |
| | Species: Rabbit Strain: NZW Application Route: Oral General Toxicity Maternal: NOAEL: 40 mg/kg bw/day Developmental Toxicity: NOAEL: 40 mg/kg bw/day Method: OECD Test Guideline 414 GLP: yes |
| | Species: Rat Application Route: Oral Developmental Toxicity: NOAEL F1: 15 mg/kg bw/day Method: OECD Test Guideline 443 GLP: yes |
| Reproductive toxicity - Assessment | Species: Rat Application Route: Oral Developmental Toxicity: NOAEL F2: 50 mg/kg body weight Method: OECD Test Guideline 443 GLP: yes |
| | : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments., Suspected of damaging fertility. Suspected of damaging the unborn child. |

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

| | |
|----------------------|---|
| Effects on fertility | : Species: Rat Strain: wistar Application Route: Oral General Toxicity - Parent: NOAEL: 10 mg/kg body weight General Toxicity F1: NOAEL: 30 mg/kg body weight Fertility: NOAEL Parent: 30 mg/kg body weight Method: OECD Test Guideline 422 |
| | Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: 15 mg/kg bw/day General Toxicity F1: NOAEL: 15 mg/kg bw/day Method: OECD Test Guideline 443 |

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| | | |
|------------------------------------|---|---|
| | | GLP: yes |
| | | Species: Rat Application Route: Oral Fertility: NOAEL: 15 mg/kg bw/day Method: OECD Test Guideline 443 GLP: yes |
| | | Species: Rat Application Route: Oral Fertility: NOAEL F1: 50 mg/kg bw/day Method: OECD Test Guideline 443 GLP: yes |
| Effects on foetal development | : | Species: Rat Strain: wistar Application Route: Oral General Toxicity Maternal: NOAEL: 10 mg/kg body weight Developmental Toxicity: NOAEL: 10 mg/kg body weight Method: OECD Test Guideline 414 |
| | | Species: Rabbit Strain: NZW Application Route: Oral General Toxicity Maternal: NOAEL: 40 mg/kg bw/day Developmental Toxicity: NOAEL: 40 mg/kg bw/day Method: OECD Test Guideline 414 GLP: yes |
| | | Species: Rat Application Route: Oral Developmental Toxicity: NOAEL F1: 15 mg/kg bw/day Method: OECD Test Guideline 443 GLP: yes |
| | | Species: Rat Application Route: Oral Developmental Toxicity: NOAEL F2: 50 mg/kg body weight Method: OECD Test Guideline 443 GLP: yes |
| Reproductive toxicity - Assessment | : | Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments., Suspected of damaging fertility. Suspected of damaging the unborn child. |

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

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Repeated dose toxicity

Product:

Species : Rat, male and female
NOAEL : 10 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408
GLP : yes

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Species : Rat, male and female
NOAEL : 10 mg/kg
Application Route : Oral
Exposure time : 90 d
Method : OECD Test Guideline 408
GLP : yes

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

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NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC: > 1,000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition of activated sludge
Method: OECD Test Guideline 209

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC: > 1,000 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition of activated sludge
Method: OECD Test Guideline 209

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

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Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

1,1'-(1,1,2,2-tetramethylethylene)dibenzene:

Partition coefficient: n- : log Pow: > 6.5 (25 °C)
octanol/water

Mobility in soil

No data available

Hazardous to the ozone layer

Not applicable

Other adverse effects

Product:

Additional ecological infor- : No data available
mation

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of wastes in an approved waste disposal facility.
The product should not be allowed to enter drains, water
courses or the soil.
Do not contaminate ponds, waterways or ditches with chemi-
cal or used container.

Contaminated packaging : Dispose of in accordance with local regulations.
Clean container with water.
Dispose of contents/ container to an approved waste disposal
plant.
Empty remaining contents.
Dispose of as unused product.

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Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Environmentally hazardous : no

IATA-DGR

UN/ID No. : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo aircraft) : Not applicable
Packing instruction (passenger aircraft) : Not applicable

IMDG-Code

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
EmS Code : Not applicable
Marine pollutant : Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

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Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

Substances Subject to be Indicated Names

Not applicable

Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Not applicable

Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

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Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

Explosive Control Law

Not applicable

Vessel Safety Law

Not regulated as a dangerous good

Aviation Law

Not regulated as a dangerous good

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation : Not classified as noxious liquid substance

Pack transportation : Not classified as marine pollutant

Waste Disposal and Public Cleansing Law

Industrial waste

The components of this product are reported in the following inventories:

| | | |
|------------|---|--|
| TCSI (TW) | : | On the inventory, or in compliance with the inventory |
| TSCA (US) | : | All substances listed as active on the TSCA inventory |
| AIIC (AU) | : | On the inventory, or in compliance with the inventory |
| DSL (CA) | : | All components of this product are on the Canadian DSL |
| ENCS (JP) | : | On the inventory, or in compliance with the inventory |
| ISHL (JP) | : | On the inventory, or in compliance with the inventory |
| KECI (KR) | : | On the inventory, or in compliance with the inventory |
| IECSC (CN) | : | On the inventory, or in compliance with the inventory |

16. OTHER INFORMATION

Further information

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.
These safety instructions also apply to empty packaging which

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may still contain product residues.
The hazards on the label also apply to residues in the container.

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Date format : yyyy/mm/dd

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Inventory; TDG - Transportation of Dangerous Goods; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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