

SAFETY DATA SHEET

Date Prepared : 2021.07.01
Revision Date : 2026.06.15

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

1.1 Product identifier

Trade name : Food Grade Oil C-7

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

Use of the Sub-
stance/Mixture : Lubricant

Recommended restrictions
on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company: KOBELCO COMPRESSORS CORPORATION

Address: THE LINKPILLAR 2, 22-1, Takanawa 2-
chome, Minato-ku, Tokyo, 108-8688, Japan

1.4 Emergency telephone number

Emergency telephone number : +81-3-5739-5341

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Long-term (chronic) aquatic hazard, Cat-
egory 3 H412: Harmful to aquatic life with long lasting ef-
fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

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P273 Avoid release to the environment.

Disposal:

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

Additional Labelling

EUH208 Contains N-1-naphthylaniline. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|----------------------------|---|--|--------------------------|
| 2,6-di-tert-butyl-p-cresol | 128-37-0 204-881-4 01-2119555270-46 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | >= 1 - < 2,5 |
| N-1-naphthylaniline | 90-30-2 201-983-0 01-2119488704-27 | Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 (Blood, Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0,25 - < 1 |

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| | | | |
|---|---|--|--------------|
| | | M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | |
| | | Acute toxicity estimate | |
| | | Acute oral toxicity: 1.625 mg/kg | |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 270-128-1 01-2119491299-23 | Repr. 2; H361f | >= 0,1 - < 1 |
| Substances with a workplace exposure limit : | | | |
| 1-Decene, homopolymer, hydrogenated (≥PAO10) | 68037-01-4 | | >= 70 - < 90 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
Contact a poison control center.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No symptoms known or expected.
See Section 11 for more detailed information on health effects and symptoms.
Get medical attention if symptoms appear.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
For specialist advice physicians should contact the Poisons Information Service.
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
Sand
Water mist

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon monoxide
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : No action shall be taken involving any personal risk or without

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suitable training.
Put on appropriate personal protection equipment.
Do not touch or walk through spilt material.
Evacuate personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.

6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
Prevent further leakage or spillage.
Prevent product from entering drains.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so.
Move containers from spill area.
Wash spillages into an effluent treatment plant or proceed as follows.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Dispose of wastes in an approved waste disposal facility.
Do not allow into the sewerage system, surface waters or groundwater or into the soil.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Remove contaminated clothing and protective equipment before entering eating areas.
Workers should wash hands and face before eating, drinking and smoking.
Put on appropriate personal protection equipment.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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. Keep container closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate container to avoid environmental contamination.

Storage class (TRGS 510) : 10, Combustible liquids

Further information on storage stability : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Raw material for industry

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--|--|---|----------------------|-------------|
| 1-Decene, homopolymer, hydrogenated (≥PAO10) | 68037-01-4 | AGW (Alveolate fraction) | 5 mg/m ³ | DE TRGS 900 |
| | Peak-limit: excursion factor (category): 4;(II) | | | |
| | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| 2,6-di-tert-butyl-p-cresol | 128-37-0 | AGW (Vapour and aerosols, inhalable fraction) | 10 mg/m ³ | DE TRGS 900 |
| | Peak-limit: excursion factor (category): 4;(II) | | | |
| | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| N-1-naphthylaniline | 90-30-2 | AGW (Inhalable fraction) | 2 mg/m ³ | DE TRGS 900 |
| | Peak-limit: excursion factor (category): 2;(II) | | | |
| | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin | | | |

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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value | |
|----------------------------|---|-----------------|---------------------------------------|--------------------------------------|------------------------|
| 2,6-di-tert-butyl-p-cresol | Workers | Inhalation | Long-term exposure, Systemic effects | 4,4 mg/m ³ | |
| | Workers | Dermal | Long-term exposure, Systemic effects | 4,7 mg/kg bw/day | |
| | Consumers | Inhalation | Long-term exposure, Systemic effects | 0,78 mg/m ³ | |
| | Consumers | Dermal | Systemic effects, Long-term exposure | 1,7 mg/kg bw/day | |
| | Consumers | Oral | Long-term exposure, Systemic effects | 0,25 mg/kg bw/day | |
| | N-1-naphthylaniline | Workers | Inhalation | Long-term exposure, Systemic effects | 0,08 mg/m ³ |
| Workers | | Inhalation | Short-term exposure, Systemic effects | 44 mg/m ³ | |
| Workers | | Dermal | Long-term exposure, Systemic effects | 0,02 mg/kg bw/day | |
| | Workers | Dermal | Short-term exposure, Systemic effects | 6,67 mg/kg bw/day | |
| | Consumers | Inhalation | Long-term exposure, Systemic effects | 0,015 mg/m ³ | |
| | Consumers | Inhalation | Short-term exposure, Systemic effects | 33 mg/m ³ | |
| | Consumers | Dermal | Long-term exposure, Systemic effects | 0,008 mg/kg bw/day | |
| | Consumers | Dermal | Short-term exposure, Systemic effects | 3,33 mg/kg bw/day | |
| | Consumers | Oral | Long-term exposure, Systemic effects | 0,008 mg/kg bw/day | |
| | Consumers | Oral | Short-term exposure, Systemic effects | 2 mg/kg bw/day | |
| | Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Workers | Inhalation | Long-term exposure, Systemic effects | 4,37 mg/m ³ |
| | | Workers | Dermal | Long-term exposure, Systemic effects | 0,62 mg/kg |
| Consumers | | Inhalation | Long-term exposure, Systemic effects | 1,09 mg/m ³ | |
| | Consumers | Dermal | Long-term exposure, Systemic effects | 0,31 mg/kg | |
| | Consumers | Oral | Long-term exposure, Systemic effects | 0,31 mg/kg | |

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Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|---|---------------------------|---------------------------------|
| bis(2-ethylhexyl) sebacate | Soil | 0,865 mg/kg dry weight (d.w.) |
| 2,6-di-tert-butyl-p-cresol | Fresh water | 2,3 µg/l |
| | Freshwater - intermittent | 4 µg/l |
| | Marine water | 0,23 µg/l |
| | Sewage treatment plant | 100 mg/l |
| | Fresh water sediment | 3,4 mg/kg dry weight (d.w.) |
| | Marine sediment | 0,34 mg/kg dry weight (d.w.) |
| N-1-naphthylaniline | Soil | 0,24 mg/kg dry weight (d.w.) |
| | Secondary Poisoning | 16,7 mg/kg food |
| | Fresh water | 0,0002 mg/l |
| | Marine water | 0,00002 mg/l |
| | Sewage treatment plant | 100 mg/l |
| | Fresh water sediment | 0,0344 mg/kg dry weight (d.w.) |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Marine sediment | 0,00344 mg/kg dry weight (d.w.) |
| | Soil | 0,0068 mg/kg dry weight (d.w.) |
| | Secondary Poisoning | 7,173 mg/kg food |
| | Fresh water | 0,051 mg/l |
| | Marine water | 0,0051 mg/l |
| | Secondary Poisoning | 0,51 mg/l |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | Fresh water sediment | 9320 mg/kg |
| | Marine sediment | 932 mg/kg |
| | Soil | 1860 mg/kg |
| | Sewage treatment plant | 1 mg/l |

8.2 Exposure controls

Engineering measures

If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Safety glasses with side-shields conforming to EN166
- Hand protection
Material : Polyvinyl alcohol or nitrile- butyl-rubber gloves
- Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Request information on glove permeation properties from the glove supplier.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
- Skin and body protection : Wear suitable protective clothing.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Impervious clothing
- Respiratory protection : No personal respiratory protective equipment normally required.

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.
In the case of vapour formation use a respirator with an approved filter.
In the case of dust or aerosol formation use respirator with an approved filter.

Respirator with combination filter for vapour/particulate (EN 141)
- Protective measures : Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.
These recommendations apply to the product as supplied.

Environmental exposure controls

- Water : No special precautions required.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | | |
|--|---|--|
| Appearance | : | liquid |
| Physical state | : | liquid |
| Colour | : | clear |
| Odour | : | characteristic |
| Odour Threshold | : | No data available |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | 238 °C |
| Ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Self-Accelerating decomposition temperature (SADT) | : | No data available |
| pH | : | Not applicable |
| Viscosity | | |
| Viscosity, dynamic | : | 9,5 - 74 mPa,s (40 - 100 °C) Method: ASTM D 445 |
| Viscosity, kinematic | : | 68,3 mm ² /s (40 °C) |
| Solubility(ies) | | |
| Water solubility | : | No data available |
| Solubility in other solvents | : | No data available |

| | | |
|--|---|---------------------------------|
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | No data available |
| Relative density | : | No data available |
| Density | : | 0,842 g/cm ³ (15 °C) |
| Relative vapour density | : | No data available |

9.2 Other information

| | | |
|-------------------------|---|-------------------|
| Explosives | : | No data available |
| Oxidizing properties | : | No data available |
| Flammability (liquids) | : | No data available |
| Flammable solids | : | No data available |
| Burning number | : | No data available |
| Self-ignition | : | No data available |
| Self-heating substances | : | No data available |
| Evaporation rate | : | No data available |
| Miscibility with water | : | No data available |

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture
Contamination

10.5 Incompatible materials

Materials to avoid : Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NO_x)
Carbon oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not classified based on available information.

Components:

2,6-di-tert-butyl-p-cresol:

Acute oral toxicity : LD50 (Rat, male and female): > 2.930 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality

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N-1-naphthylaniline:

Acute oral toxicity : LD50 (Rat, male): 1.625 mg/kg

Acute dermal toxicity : LD50 (Rabbit, male): > 5.000 mg/kg

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: no
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality

Skin corrosion/irritation

Not classified based on available information.

Components:**2,6-di-tert-butyl-p-cresol:**

Species : Rabbit
Method : Draize Test
Result : No skin irritation

N-1-naphthylaniline:

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

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : Mild skin irritation
GLP : no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

2,6-di-tert-butyl-p-cresol:

Species : Rabbit
Method : Draize Test
Result : No eye irritation

N-1-naphthylaniline:

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

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

2,6-di-tert-butyl-p-cresol:

Test Type : Patch Test
Exposure routes : Skin contact
Species : Human
Result : Does not cause skin sensitisation.

Test Type : No data available
Exposure routes : Skin contact
Species : Guinea pig
Method : No information available.
Result : Did not cause sensitisation on laboratory animals.
GLP : no

N-1-naphthylaniline:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : The product is a skin sensitizer, sub-category 1B.
GLP : no

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
GLP : yes

Germ cell mutagenicity

Not classified based on available information.

Components:

2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: No information available.
Result: negative
GLP: No information available.

Test Type: HPRT test
Test system: rat hepatocytes
Metabolic activation: with metabolic activation
Method: No information available.
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Method: No information available.
Result: negative
GLP: No information available.

Test Type: Cytogenetic assay
Species: Rat (male)
Cell type: Bone marrow
Application Route: Oral
Method: No information available.

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Result: negative
GLP: No information available.

N-1-naphthylaniline:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No information available.

Genotoxicity in vivo : Test Type: dominant lethal test
Species: Mouse (male)
Application Route: Intraperitoneal
Method: OECD Test Guideline 478
Result: negative
GLP: No information available.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Genotoxicity in vitro : Test Type: Micronucleus test
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: Ames test
Test system: Salmonella typhimurium

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Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: dominant lethal test
Species: Mouse (male)
Application Route: Oral
Method: OECD Test Guideline 478
Result: negative
GLP: no
Remarks: Test results on an analogous product

Carcinogenicity

Not classified based on available information.

Components:

2,6-di-tert-butyl-p-cresol:

Species : Rat, male and female
Application Route : Oral
Exposure time : 22 month(s)
Dose : 0 - 25 - 100 - 250/500 mg/kg body weight
NOAEL : 25 mg/kg bw/day
Method : No information available.
Result : equivocal
GLP : yes

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

Reproductive toxicity

Not classified based on available information.

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Components:

2,6-di-tert-butyl-p-cresol:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 25 - 100 - 250/500
Fertility: NOAEL: 500 mg/kg body weight
Result: Animal testing did not show any effects on fertility.
GLP: yes

Effects on foetal development : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Dose: 0 - 25 - 100 - 250/500 milligram per kilogram
General Toxicity Maternal: NOAEL: 100 mg/kg body weight
Developmental Toxicity: NOAEL: 100 mg/kg body weight
Method: No information available.
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses
GLP: yes

Test Type: Pre-natal
Species: Mouse, female
Application Route: Oral
Dose: 70 - 240 - 800 milligram per kilogram
General Toxicity Maternal: NOAEL: 240 mg/kg body weight
Developmental Toxicity: NOAEL: 800 mg/kg body weight
Method: No information available.
Result: Did not show teratogenic effects in animal experiments.
GLP: No information available.

N-1-naphthylaniline:

Effects on foetal development : Test Type: Pre-natal
Species: Rat, female
Application Route: Oral
Dose: 15 - 50 - 150 milligram per kilogram
General Toxicity Maternal: NOAEL: 50 mg/kg bw/day
Developmental Toxicity: NOAEL: 150 mg/kg bw/day
Method: OECD Test Guideline 414
GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Oral
Dose: 25-75-225 milligram per kilogram
General Toxicity - Parent: NOAEL: 25 mg/kg bw/day
Fertility: NOEL: 225 mg/kg bw/day
Method: OECD Test Guideline 422

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Result: Animal testing did not show any effects on fertility.
GLP: yes

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rabbit, female
Application Route: Oral
Dose: 10-30-100 milligram per kilogram
General Toxicity Maternal: NOAEL: 30 mg/kg bw/day
Teratogenicity: NOAEL: 100 mg/kg bw/day
Developmental Toxicity: NOEL: 30 mg/kg bw/day
Method: OECD Test Guideline 414
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses
GLP: yes

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

N-1-naphthylaniline:

Exposure routes : Oral
Target Organs : Blood, Kidney
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

2,6-di-tert-butyl-p-cresol:

Species : Rat, male and female
NOAEL : 25 mg/kg
LOAEL : 100 mg/kg
Application Route : Oral
Exposure time : 22 Monate
Number of exposures : daily
Dose : 0 - 25 - 100 - 250/500 mg/kg bw/day
Method : No information available.
GLP : yes
Symptoms : alteration in liver enzymes
Remarks : Chronic toxicity

Species : Pig, male and female
Application Route : 1500 ppm
Application Route : Oral

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Exposure time : 42 Tage
Number of exposures : daily
Dose : 0 - 150 - 1000 - 1500 parts per million
Method : No information available.
GLP : yes
Remarks : Subacute toxicity

N-1-naphthylaniline:

Species : Rat, male and female
LOAEL : 5 mg/kg
Application Route : Oral
Exposure time : 90 d
Number of exposures : daily
Dose : 5 - 25 - 125 mg/kg bw/day
Method : OECD Test Guideline 408
GLP : yes
Target Organs : Blood, Kidney
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.
Remarks : Subchronic toxicity

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rat, male and female
NOAEL : 25 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : daily
Dose : 25-75-225 mg/kg bw/d
Method : OECD Test Guideline 422
GLP : yes
Remarks : Subacute toxicity

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : The product itself has not been tested.

SECTION 12: Ecological information**12.1 Toxicity****Components:****2,6-di-tert-butyl-p-cresol:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,57 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Regulation (EC) No. 440/2008, Annex, C.1
GLP: yes
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: Fresh water
- Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0,4 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: yes
Remarks: Fresh water
- EC10 (Desmodesmus subspicatus (green algae)): 0,4 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: Regulation (EC) No. 440/2008, Annex, C.3
GLP: yes
Remarks: Fresh water
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209

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| | GLP: yes Remarks: Fresh water nominal concentration |
| Toxicity to fish (Chronic toxicity) | : NOEC: 0,053 mg/l Exposure time: 42 d Species: <i>Oryzias latipes</i> (Orange-red killifish) Test Type: flow-through test Analytical monitoring: yes Method: OECD Test Guideline 210 GLP: yes Remarks: Fresh water |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 0,023 mg/l End point: Reproduction Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes Remarks: Fresh water |
| M-Factor (Chronic aquatic toxicity) | : 1 |
| Toxicity to soil dwelling organisms | : Test Type: Reproduction Test NOEC: 25 mg/kg Exposure time: 28 d End point: Reproduction Species: <i>Eisenia fetida</i> (earthworms) Method: OECD Test Guideline 222 GLP:yes |
| Plant toxicity | : NOEC: 4,74 mg/kg Exposure time: 17 d End point: Growth inhibition Species: <i>Allium cepa</i> Method: OECD Test Guideline 208 GLP:yes EC50: 20,9 mg/kg Exposure time: 17 d End point: Growth inhibition Species: <i>Allium cepa</i> Method: OECD Test Guideline 208 GLP:yes |
| N-1-naphthylaniline: | |
| Toxicity to fish | : LC50 (<i>Oncorhynchus mykiss</i> (rainbow trout)): 0,44 mg/l Exposure time: 96 h |

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- Analytical monitoring: no
Remarks: nominal concentration
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,3 mg/l
End point: Immobilization
Exposure time: 48 h
Analytical monitoring: no
Remarks: nominal concentration
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,93 mg/l
End point: Growth rate
Exposure time: 96 h
Analytical monitoring: no
Remarks: nominal concentration
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l
End point: Respiration inhibition
Exposure time: 3 h
Method: OECD Test Guideline 209
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,032 mg/l
End point: Reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Analytical monitoring: no
Method: OECD Test Guideline 211
GLP: yes
Remarks: nominal concentration
- M-Factor (Chronic aquatic toxicity) : 1
- Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**
- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: no
Remarks: Fresh water
nominal concentration
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 51 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
-

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| | |
|--|---|
| | Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes Remarks: Fresh water nominal concentration |
| Toxicity to algae/aquatic plants | : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: no Remarks: Fresh water nominal concentration |
| | NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 201 GLP: no Remarks: Fresh water nominal concentration |
| Toxicity to microorganisms | : EC50 (activated sludge): > 100 mg/l End point: Respiration inhibition Exposure time: 3 h Test Type: static test Analytical monitoring: no Method: OECD Test Guideline 209 GLP: no Remarks: Fresh water nominal concentration |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : EL10: 1,69 mg/l End point: Reproduction Exposure time: 21 Days Species: Daphnia magna (Water flea) Test Type: semi-static test Analytical monitoring: no Method: OECD Test Guideline 211 GLP: yes Remarks: Fresh water nominal concentration water extractable fraction |
| 1-Decene, homopolymer, hydrogenated (≥PAO10): | |
| Toxicity to fish | : LC50 (Fish): > 1.000 mg/l Exposure time: 96 h |

12.2 Persistence and degradability

Components:

2,6-di-tert-butyl-p-cresol:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 4,5 %
Exposure time: 28 d
Method: OECD Test Guideline 301C
GLP: No information available.

Stability in water : Degradation half life (DT50): 4 - 8 d
Hydrolysis: at 20 °C

Photodegradation : Sensitiser: OH
Degradation (indirect photolysis):
Degradation half life: 21,054 h

N-1-naphthylaniline:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 20,1 mg/l
Result: Not readily biodegradable.
Biodegradation: 1 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

1-Decene, homopolymer, hydrogenated (≥PAO10):

Biodegradability : Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Components:

2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Bioconcentration factor (BCF): > 2.000

Species: Cyprinus carpio (Carp)
Exposure time: 56 d

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Temperature: 25 °C
Concentration: 0,05 mg/l
Bioconcentration factor (BCF): 781
Method: OECD Test Guideline 305
GLP: No information available.

Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Temperature: 25 °C
Concentration: 0,005 mg/l
Bioconcentration factor (BCF): 839
Method: OECD Test Guideline 305
GLP: No information available.

Partition coefficient: n-octanol/water : log Pow: 5,1
Method: measured

N-1-naphthylaniline:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Bioconcentration factor (BCF): >= 427
Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: 4,28

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n-octanol/water : log Pow: 6,66 (23 °C)
pH: 6,67
Method: OECD Test Guideline 123
GLP: yes
Remarks: Based on data from similar materials

12.4 Mobility in soil

Components:

2,6-di-tert-butyl-p-cresol:

Mobility : Medium: Soil
Content: 82,9 %
Method: Calculation, Mackay Level III Fugacity Model

: Medium: Water
Content: 8,53 %
Method: Calculation, Mackay Level III Fugacity Model

: Medium: Sediment
Content: 7,23 %
Method: Calculation, Mackay Level III Fugacity Model

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- : Medium: Air
Content: 1,33 %
Method: Calculation, Mackay Level III Fugacity Model
- Distribution among environmental compartments : log Koc: 4,17
Method: estimated
- Stability in soil : Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: yes
pH: 5,7
Cation exchange capacity: 16 m_/kg
Biomass: 214 mg/kg
Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: yes
- Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: yes
pH: 6,6
Cation exchange capacity: 47 m_/kg
Biomass: 265,7 mg/kg
Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: yes
- Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: yes
pH: 7,4
Cation exchange capacity: 265 m_/kg
Biomass: 531,8 mg/kg
Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: yes
- Test Type: aerobic degradation
Soil temperature: 12 °C
Radio label: yes
pH: 7,2
Cation exchange capacity: 257 m_/kg
Biomass: 938,7 mg/kg
Concentration: 0,5 mg/kg
Method: OECD Test Guideline 307
GLP: yes

12.5 Results of PBT and vPvB assessment

Product:

- Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

2,6-di-tert-butyl-p-cresol:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.
The product itself has not been tested.
Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimised wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

| | | |
|------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

14.2 UN proper shipping name

| | | |
|------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

14.3 Transport hazard class(es)

| | | |
|------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

14.4 Packing group

| | | |
|------------------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA (Cargo) | : | Not regulated as a dangerous good |
| IATA (Passenger) | : | Not regulated as a dangerous good |

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Hazard and Handling Notes. : Not dangerous cargo.
Keep separated from foodstuffs.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 75, 3
- Do not use for tattooing purposes.
- 2-naphthylamine (Number on list 75, 43, 28, 12)
- International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable
- Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. : Neither banned nor restricted
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water hazard class (Germany) : WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.
H317 : May cause an allergic skin reaction.
H361f : Suspected of damaging fertility.
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Repr. : Reproductive toxicity
Skin Sens. : Skin sensitisation
STOT RE : Specific target organ toxicity - repeated exposure
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 - Interna-

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tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Aquatic Chronic 3 H412

Classification procedure:

Calculation method

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

Date format : yyyy/mm/dd