

Safety Data Sheet

Material: 319404

GENIOSIL® TE 40

Version 1.0 (GHS_INT)

Print Date 18.08.2023

Date of last alteration: 07.08.2023

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

1.1 Product identifier

Commercial product name: GENIOSIL® TE 40

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

Use of substance / preparation:

Industrial.

Intermediate chemical

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:

Wacker Chemicals (China) Co., Ltd.

Street/POB-No.:

Bldg. 3, 1535 Hongmei Road

Caohejing Hi-Tech Park

CHN Shanghai 200233

State/postal code/city:

Telephone:

+86 21 6100-3400

Information about the Safety Data Sheet:

Telephone

+49 8677 83-4888

eMail

WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information:

Europe

+44 1235 239670

Emergency Information:

Africa and the Middle East

+44 1235 239671

Emergency Information:

Caribbean, Central America and South

+1 646 844 7309

America except Chile and Colombia

Emergency Information:

Pakistan

+65 3158 1329

Emergency Information:

Bangladesh

+65 3158 1200

Emergency Information:

East Asia and Southeast Asia except Sri

+65 3158 1074

Lanka, Bangladesh and Pakistan

Emergency Information:

Sri Lanka

+65 3158 1195

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| Classification | H-Code |
|-------------------------------|--------|
| Flammable liquids, Category 3 | H226 |

2.2 Label elements

Pictogram(s):



Signal Word: Warning

| H-Code | Hazard Statements |
|--------|------------------------------|
| H226 | Flammable liquid and vapour. |

| P-Code | Precautionary Statements |
|--------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P243 | Take action to prevent static discharges. |

2.3 Other hazards

Inhalation of aerosol spray may damage health.

The product hydrolyses under formation of ethanol (CAS-Nr. 64-17-5). Ethanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

Endocrine disrupting properties - human health: 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.

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Endocrine disrupting properties - environment: 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

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Silicic acid ester, hydrolzed

3.2.2 Hazardous ingredients

| Type | CAS No. | Substance | Content % |
|------|---------|---------------------|-----------|
| INHA | 78-10-4 | Tetraethyl silicate | >10 – <20 |
| VERU | 64-17-5 | Ethanol | >=1 – <2 |

Type: INHA: ingredient, VERU: impurity

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Provide fresh air.

After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

alcohol-resistant foam , carbon dioxide , water mist , sprinkler system , sand , extinguishing powder .

Extinguishing media which must not be used for safety reasons:

water jet .

5.2 Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes .

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5.3 Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

General information:

Avoid exposure by technical measures or personal protective equipment.

Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:

Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

Maximum airborne concentrations at the workplace:

| Substance | Type | mg/m ³ | ppm | Dust fract. | Fibre/m ³ |
|------------------------------|------|-------------------|-----|-------------|----------------------|
| Aerosol - inhalable fraction | | 10,0 | | | |

The aerosol limit specified is a recommendation should aerosol be formed during processing.

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Avoid contact with eyes and skin. Preventive skin protection recommended. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

tight fitting protective goggles, according to acknowledged standards such as EN 166.

Hand protection

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: > 0,4 mm

Breakthrough time: 10 - 30 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

Chemical protective clothing, according to acknowledged standards such as EN 13034, full-body liquid-tight protection if necessary, according to acknowledged standards such as EN 14605, if handled uncovered. Please observe the instructions regarding permeability time which are provided by the supplier.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

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

| Property: | Value: | Method: |
|---|--|-------------|
| Appearance | | |
| Physical state | liquid | |
| Colour | colourless | |
| Odour | | |
| Odour | faint | |
| Odour limit | | |
| Odour limit | no data available | |
| pH-Value | | |
| pH-Value | Not applicable. Product displays acidic reaction with water. | |
| Melting point/freezing point | | |
| Melting point / melting range | < -75 °C | |
| Initial boiling point and boiling range | | |
| Boiling point / boiling range | > 170 °C at 1013 hPa | |
| Flash point | | |
| Flash point | 42 °C | (ISO 3679) |
| Sustained combustibility | 86 °C | (ISO 9038) |
| Evaporation rate | | |
| Evaporation rate | no data available | |
| Upper/lower flammability or explosive limits | | |
| Lower explosion limit (LEL) | 1,3 Vol-% | |
| Upper explosion limit (UEL) | 23 Vol-% | |
| Vapour pressure | | |
| Vapour pressure | 10 hPa / 20 °C | |
| Solubility(ies) | | |
| Water solubility / miscibility | practically insoluble | |
| Vapour density | | |
| Relative gas/vapour density | no data available | |
| Relative Density | | |
| Relative Density | 1,06 - 1,07 (20 °C) | (DIN 51757) |
| | (Water / 4 °C = 1,00) | |
| Density | 1,06 - 1,07 g/cm ³ (20 °C) | (DIN 51757) |
| Partition coefficient: n-octanol/water | | |
| Partition coefficient: n-octanol/water | not applicable | |
| Auto-ignition temperature | | |
| Ignition temperature | 240 °C | (DIN 51794) |
| Decomposition temperature | | |
| Thermal decomposition | no data available | |
| Viscosity | | |
| Viscosity (dynamic) | 3 - 4,5 mPa.s at 25 °C | (DIN 51562) |
| Viscosity (kinematic) | no data available | |
| Molecular mass | | |
| Molecular mass | not applicable | |

9.2 Other information

Hydrolysis products reduce the flash point. Explosion limits for released ethanol: 3.5 - 15%(V).

SECTION 10: Stability and reactivity**10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

Moisture, heat, open flames, and other sources of ignition.

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10.5 Incompatible materials

Reacts with water, basic substances and acids. The reaction takes place with the formation of ethanol.

10.6 Hazardous decomposition products

Ethanol by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Product details:

| Exposure routes | Result/Effect |
|----------------------------|---|
| by inhalation (aerosol) | LC50 > 5,03 mg/l; 4 h No mortality observed at this dose. Species: Rat, Source: test report |

Acute toxicity estimate (ATE):

ATE_{mix} (Oral): > 2000 mg/kg

Data on substances:

Ethanol:

| Exposure routes | Result/Effect |
|---------------------------|--|
| Oral | LD50 10470 mg/kg Species: Rat, Source: ECHA |
| by inhalation (vapour) | LC50 124,7 mg/l; 4 h Species: Rat, Source: ECHA |

Tetraethyl silicate:

| Exposure routes | Result/Effect |
|----------------------------|---|
| Oral | LD50 > 2000 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose. Species: Rat, Method: OECD 423, Source: test report |
| by inhalation (aerosol) | LC50 10 mg/l; 4 h Species: Rat, Sex: male, Method: OECD 403, Source: test report |
| by inhalation (aerosol) | LC50 > 16,8 mg/l; 4 h Species: Rat, Sex: female, Method: OECD 403, Source: test report |

11.1.3 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Ethanol:

| |
|---|
| No skin irritation (Species: Rabbit, Source: ECHA) |
|---|

Tetraethyl silicate:

| |
|--|
| No skin irritation (Species: Rabbit, Method: OECD 404, Source: test report) |
|--|

11.1.4 Serious eye damage/eye irritation

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Product details:

No eye irritation
(Species: Rabbit)

Data on substances:**Ethanol:**

irritating
(Species: Rabbit, Source: ECHA)

Tetraethyl silicate:

Based on experience with humans, irritation is to be expected after contact with the eyes.

irritating
(Test system: Human experience, Source: literature)

No eye irritation
(Species: Rabbit, Method: OECD 405, Source: test report)

11.1.5 Respiratory or skin sensitisation**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances:**Ethanol:**

During several years of handling this material, there were no indications of a skin-sensitizing potential.

Tetraethyl silicate:

| Exposure routes | Result |
|-----------------|---|
| Skin contact | Does not cause skin sensitisation. (Species: Guinea pig, Test system: Buehler Test, Method: OECD 406, Source: test report) |

11.1.6 Germ cell mutagenicity

negative
(Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: test report)

negative
(Test system: chromosome aberration assay (in vitro) / mammalian cells, Method: OECD 473, Source: test report)

Data on substances:**Tetraethyl silicate:**

negative
(Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: test report)

negative
(Test system: mutation assay (in vitro) / mammalian cells, Method: OECD 476, Source: test report)

negative
(Test system: chromosome aberration assay (in vitro) / mammalian cells, Method: OECD 473, Source: test report)

11.1.7 Carcinogenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Reproductive toxicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances**Tetraethyl silicate:**

Based on hydrolysis characteristics of the substance the assessment is based on the hydrolysis products. Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.

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Reproductive Toxicity/FertilityNOAEL: \geq 1000 mg/kg

(Symptoms/Effect: Nothing abnormal detected., Test system: Two-generation study, Species: Rat, Strain: wistar, Sex: male and female, Application Route: Oral, Route of administration: gavage, Test substance: read-across substance, Method: OECD 416, Source: test report)

Reproductive Toxicity/Development/TeratogenicityNOAEL (developmental): \geq 100 mg/kg

NOAEL (maternal): 50 mg/kg

(Symptoms/Effect: Fetus: Nothing abnormal detected, Test system: Developmental Toxicity Study, Species: Rat, Strain: Sprague-Dawley, Application Route: Oral, Route of administration: gavage, Method: OECD 422, Source: test report)

NOAEL (developmental): \geq 1000 mg/kgNOAEL (maternal): \geq 1000 mg/kg

(Symptoms/Effect: Fetus: Nothing abnormal detected, Test system: Developmental Toxicity Study, Species: Rat, Application Route: Oral, Route of administration: gavage, Test substance: read-across substance, Method: OECD 414, Source: test report)

11.1.9 Specific target organ toxicity - single exposure**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances:**Tetraethyl silicate:****Result/Effect**

Exposure routes: by inhalation

target organs: respiratory tract

Irritating to respiratory system.

Source: test report

11.1.10 Specific target organ toxicity - repeated exposure**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances:**Tetraethyl silicate:**

Based on hydrolysis characteristics of the substance the assessment is based on the hydrolysis products. Based on the available data the criteria for classification as toxic after repeated exposure are not fulfilled.

Result/EffectNOAEL: \geq 2000 mg/kg

(Test system: Subchronic study, Species: Rat, Application Route: Oral, Route of administration: gavage, Test period: 90 d, Frequency of Treatment: 5 d/w, Test substance: read-across substance, Method: OECD 408, Source: test report)

LOAEC: 0,4 mg/l

(Symptoms/Effect: Haematological changes., Local effect: irritation of mucous membranes., Test system: Subacute study, Species: Mouse, Sex: male, Application Route: by inhalation, Route of administration: vapour, Test period: 28 d, Frequency of Treatment: 5 d/w, hours/day: 6, Method: OECD 412, Source: test report)

11.1.11 Aspiration hazard**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

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.

Data on substances:

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Tetraethyl silicate:

No data available.

11.2.2 Further toxicological information

None known.

Data on substances:**Ethanol:**

Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.

SECTION 12: Ecological information**12.1 Toxicity****Assessment:**

For the product as a whole, no test data is available. According to current knowledge adverse effects on water purification plants are not expected.

Data on substances:

Data derived for the product as a whole are of higher priority than data for single ingredients.

Tetraethyl silicate:

| Result/Effect | Species/Test system | Source |
|---|---|-------------------------|
| LC50: > 245 mg/l (measured) | semi-static test Danio rerio (zebra fish) (96 h) | test report OECD 203 |
| EC50: > 75 mg/l (measured) | flow-through test Daphnia magna (Water flea) (48 h) | test report OECD 202 |
| ErC50: > 100 mg/l (nominal) | static test Pseudokirchneriella subcapitata (green algae) (72 h) | test report OECD 201 |
| EC50 (Respiration inhibition): > 100 mg/l | static test activated sludge (3 h) | test report OECD 209 |

12.2 Persistence and degradability**Assessment:**

Contact with water liberates ethanol and silicic acid.

Data on substances:**Tetraethyl silicate:**

Contact with water liberates ethanol and silicic acid.

Biodegradation:

| Result | Test system/Method | Source |
|---------------------------------------|--------------------|--------------------------|
| 98 % / 28 d Readily biodegradable. | DOC - decrease | test report OECD 301A |

Hydrolysis:

| Result | Test system | Source |
|------------------|-------------|-------------------------|
| Half-life: 4,4 h | pH 7; 25 °C | test report OECD 111 |

Product of hydrolysis (Ethanol):

Ethanol is readily biodegradable.

12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

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12.4 Mobility in soil**Assessment:**

No data known.

12.5 Results of PBT and vPvB assessment

No data available.

Data on substances:**Tetraethyl silicate:**

The substance does not fulfill the PBT criteria. The substance does not fulfill the vPvB criteria.

12.6 Endocrine disrupting properties

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.

Data on substances:**Tetraethyl silicate:**

No data available.

12.7 Other adverse effects

none known

SECTION 13: Disposal considerations**13.1 Waste treatment methods****13.1.1 Material****Recommendation:**

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.1.2 Uncleaned packaging**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR: Not applicable

RID: Not applicable

IMDG.....: Not applicable

ICAO/IATA: Not applicable

14.2 Proper shipping name

ADR: Not applicable

RID.....: Not applicable

IMDG.....: Not applicable

ICAO/IATA: Not applicable

14.3 Transport hazard class

ADR: Not applicable

RID.....: Not applicable

IMDG.....: Not applicable

ICAO/IATA: Not applicable

14.4 Packing group

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ADR: Not applicable
 RID.....: Not applicable
 IMDG.....: Not applicable
 ICAO/IATA: Not applicable

14.5 Environmental hazards

Environmentally hazardous: no

14.6 Special precautions for user

Land transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!

Railway transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!

Sea transport: Not regulated in Class 3 - IMDG 2.3.1.3 -
as the substance does not sustain combustion!Air transport: Not regulated in Class 3 - IATA 3.3.1.3 / ICAO 3.1.3 - Substance does not sustain combustion!
Due to safety reasons no air transport in totes (IBC) or vented packaging!

Relevant information in other sections has to be considered.

14.7 Maritime transport in bulk according to IMO instruments

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

15.2 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Japan: **ENCS** (Handbook of Existing and New Chemical Substances):
This product is listed in, or complies with, the substance inventory.

Australia: **AIIC** (Australian Inventory of Industrial Chemicals):
This product is listed in, or complies with, the substance inventory.

China.....: **IECSC** (Inventory of Existing Chemical Substances in China):
This product is listed in, or complies with, the substance inventory.

Canada: **DSL** (Domestic Substance List):
This product is listed in, or complies with, the substance inventory.

Philippines.....: **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):
This product is listed in, or complies with, the substance inventory.

United States of America (USA).....: **TSCA** (Toxic Substance Control Act Chemical Substance Inventory):
All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan: **TCSI** (Taiwan Chemical Substance Inventory):
This product is listed in, or complies with, the substance inventory. General note:
The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

European Economic Area (EEA).....: **REACH** (Regulation (EC) No 1907/2006):
General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

South Korea (Republic of Korea): **AREC** (Act on Registration and Evaluation of Chemicals; "K-REACH"):
Please approach your regular contact for more detailed information.

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SECTION 16: Other information**16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

| | |
|-------------------------------|------------------------|
| Classification | Rationale: |
| Flammable liquids, Category 3 | On basis of test data. |

- End of Safety Data Sheet -