

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kiehl Durator

Print date: 10.06.2015

Product code: j2215_sd

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Hazardous components which must be listed on the label

Trimethylolpropane tris(2-methyl-1-aziridine propionate)

Signal word:

Danger

Pictograms:

GHS05-GHS07-GHS08-GHS09



Hazard statements

- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P260 Do not breathe vapour.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P391 Collect spillage.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

(according to 648/2004/CE)

3.2. Mixtures

Chemical characterization

Aziridine

Hazardous components

| EC No | Chemical name | Quantity |
|------------|--|----------|
| CAS No | Classification according to Directive 67/548/EEC | |
| Index No | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| REACH No | | |
| 264-763-3 | Polyfunctional Aziridine cross-linking agent | |
| 64265-57-2 | Muta. Cat. 3, Xi - Irritant R38-41-43-68 | |
| | Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 2, Aquatic Chronic 2; H341 H302 H318 H317 H373 H411 | |

Full text of R, H and EUH phrases: see section 16.

SECTION 4: First aid measures

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4.1. Description of first aid measures

General information

Avoid contact with skin and eyes.

After inhalation

Move out of dangerous area.

If you feel unwell, seek medical advice (show the label where possible).

After contact with skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

After contact with eyes

Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.

After ingestion

Rinse mouth. Consult a physician.

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

This information is not available.

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

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Carbon dioxide (CO₂), Dry chemical, Water spray

5.2. Special hazards arising from the substance or mixture

This information is not available.

5.3. Advice for firefighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Additional information

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

In case of insufficient ventilation, wear suitable respiratory equipment.

6.2. Environmental precautions

Do not flush into surface water.

6.3. Methods and material for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes.

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Advice on protection against fire and explosion

Not required

Further information on handling

Use only in well-ventilated areas.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Store in original container.

Store in a place accessible by authorized persons only.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep container tightly closed.

Never return unused material to storage receptacle.

7.3. Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Use only in well-ventilated areas.

Do not breathe vapours or spray mist.

Wash off with soap and water.

Wash contaminated clothing before re-use.

Protective and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Eye/face protection

Safety glasses with side-shields

Hand protection

Impervious butyl rubber gloves

Skin protection

Long sleeved clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

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

| | |
|-----------------|---------------|
| Physical state: | liquid |
| Colour: | weakly yellow |
| Odour: | amine-like |

Test method

| | |
|----------------------|------|
| pH-Value (at 25 °C): | 10,5 |
|----------------------|------|

Changes in the physical state

| | |
|--------------------|----------------|
| Melting point: | <-8 °C |
| Sublimation point: | not applicable |
| Softening point: | not applicable |

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Pour point: not applicable

Flash point: >100 °C

Flammability

Solid: not applicable

Gas: not applicable

Explosive properties

Not explosive

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: not applicable

Auto-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not relevant

Vapour pressure: not determined

Density (at 20 °C): 1,08 g/cm³Water solubility:
(at 20 °C) completely miscible**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic:
(at 20 °C) 200 mPa·s

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

This information is not available.

10.2. Chemical stability

This information is not available.

10.3. Possibility of hazardous reactions

This information is not available.

10.4. Conditions to avoid

Do not expose to temperatures above 35 °C.

Stable under recommended storage conditions.

Hydrolyses in presence of: water

10.5. Incompatible materials

Acids, Acid anhydrides, Strong oxidizing agents

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10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

Further information

Do not mix with other detergents or chemicals.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Possible risks of irreversible effects.

Ingestion or inhalation of vapours causes increased irritation and inflammation of mucous membranes, dependent on exposure period. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause sensitization by inhalation. Effects of breathing high concentrations of vapour may include: Allergic reactions

| CAS No | Chemical name | | | | |
|------------|--|--------|-----------|---------|--------|
| | Exposure routes | Method | Dose | Species | Source |
| 64265-57-2 | Polyfunctional Aziridine cross-linking agent | | | | |
| | oral | ATE | 500 mg/kg | | |

Irritation and corrosivity

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Polyfunctional Aziridine cross-linking agent)

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure. (Polyfunctional Aziridine cross-linking agent)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (Polyfunctional Aziridine cross-linking agent)

Aspiration hazard

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

Specific effects in experiment on an animal

LD50/oral/rat = 3038 mg/kg

Further information

Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1. Toxicity

Should not be released into the environment.

12.3. Bioaccumulative potential

This information is not available.

12.4. Mobility in soil

This information is not available.

12.5. Results of PBT and vPvB assessment

This information is not available.

12.6. Other adverse effects

This information is not available.

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Further information

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not dispose of waste into sewer.

Waste disposal number of waste from residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Waste disposal number of used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Contaminated packaging

Clean container with water. Cans or containers must be cleaned and returned to the manufacturers for recycling.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Trimethylolpropane tris(2-methyl-1-aziridine propionate))

14.3. Transport hazard class(es):

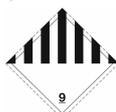
9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

Marine transport (IMDG)

14.1. UN number:

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Trimethylolpropane tris(2-methyl-1-aziridine propionate))

14.3. Transport hazard class(es):

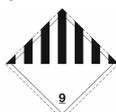
9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

274, 335

Limited quantity:

5 L

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Excepted quantity: E1

EmS: F-A, S-F

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Trimethylolpropane tris(2-methyl-1-aziridine propionate)

14.6. Special precautions for user

Not required

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

Other applicable information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2

Relevant R-phrases (Number and full text)

- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.
- 68 Possible risks of irreversible effects.

Relevant H- and EUH-phrases (Number and full text)

- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H341 Suspected of causing genetic defects.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)