SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

NOROX 500-90-AL3

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

1.1 Product identifier
Trade name : NOROX 500-90-AL3

1.2 Relevant identified uses of the substance or mixture and uses advised against
Use of the Substance/Mixture : polymerisation initiators

1.3 Details of the supplier of the safety data sheet
Company : United Initiators GmbH
Dr.-Gustav-Adolph-Str. 3
82049 Pullach
E-mail address of person responsible for the SDS : contact@united-in.com

1.4 Emergency telephone number
+49 / 89 / 74422 – 0 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Organic peroxides, Type C : H242: Heating may cause a fire.
Aspiration hazard, Category 1 : H304: May be fatal if swallowed and enters airways.
Chronic aquatic toxicity, Category 4 : H413: May cause long lasting harmful effects to aquatic life.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms :

Signal word : Danger
Hazard statements : H242 Heating may cause a fire.
H304 May be fatal if swallowed and enters airways.
H413 May cause long lasting harmful effects to aquatic life.
Precautionary statements:

**Prevention:**
- P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.
- P233 Keep container tightly closed.
- P235 Keep cool.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P331 Do NOT induce vomiting.

**Disposal:**
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

---

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EC-No. Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C11-C12, isoalkanes, &lt;2% aromatics</td>
<td>Not Assigned 918-167-1 01-2119472146-39</td>
<td>Flam. Liq. 3; H226 Asp. Tox. 1; H304</td>
<td>&gt;= 10 - &lt; 15</td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.

---

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice: Move out of dangerous area.
Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. Call a physician immediately.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

If inhaled: Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathed in, move person into fresh air.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes. If symptoms persist, call a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear. Do NOT induce vomiting. Call a physician immediately. Contact a poison control center. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed
Risks: May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed
Treatment: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media
5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite. The product burns violently. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

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

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

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Environmental precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform
6.3 Methods and material for containment and cleaning up

Methods for cleaning up:
- Contact with incompatible substances can cause decomposition at or below SADT.
- Clear spills immediately.
- Suppress (knock down) gases/vapours/mists with a water spray jet.
- To clean the floor and all objects contaminated by this material, use plenty of water.
- Soak up with inert absorbent material.
- Isolate waste and do not reuse.
- Non-sparking tools should be used.
- Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

6.4 Reference to other sections
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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

Advice on safe handling:
- Do not swallow.
- Do not breathe vapours/dust.
- Avoid contact with skin and eyes.
- Avoid formation of aerosol.
- Take precautionary measures against static discharges.
- Never return any product to the container from which it was originally removed.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Avoid confinement.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Smoking, eating and drinking should be prohibited in the application area.
- Wash thoroughly after handling.
- For personal protection see section 8.
- Protect from contamination.

Advice on protection against fire and explosion:
- Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.

Hygiene measures:
- Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.
7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with the particular national regulations.

Advice on common storage: Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Storage class (TRGS 510): 5.2, Organic peroxides and self-reacting hazardous materials

Recommended storage temperature: < 30 °C

Other data: No decomposition if stored normally.

7.3 Specific end use(s)

Specific use(s): For further information, refer to the product technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C11-C12, isoaalkanes, &lt;2% aromatics</td>
<td>Not Assigned</td>
<td>AGW</td>
<td>1.500 mg/m3</td>
<td>DE TRGS 900</td>
</tr>
<tr>
<td>Peak-limit: excursion factor (category)</td>
<td>2;(II)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Further information: Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900

| AGW | 600 mg/m3 | DE TRGS 900               |

Peak-limit: excursion factor (category) | 2;(II)                            |                    |                    |

Further information: Group exposure limit for hydrocarbon solvent mixtures, Commission for dangerous substances, See also No. 2.9 of the TRGS 900

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>di-tert-butyl 3,3,5-</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic</td>
<td>0.1 mg/m3</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

NOROX 500-90-AL3

8.2 Exposure controls

Engineering measures
Minimize workplace exposure concentrations.

Personal protective equipment

Eye protection : Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.
Ensure that eyewash stations and safety showers are close to the workstation location.

Hand protection

Material : butyl-rubber
Break through time : >= 480 min
Glove thickness : 0,5 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
### NOROX 500-90-AL3

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>musty</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>&lt; -25 °C</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Decomposes below the boiling point.</td>
</tr>
<tr>
<td>Flash point</td>
<td>72 °C Method: closed cup</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.892 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
<tr>
<td>Log Pow</td>
<td>7.0 (25 °C)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>17.3 mPa.s (20 °C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing. Organic peroxide</td>
</tr>
<tr>
<td>Self-Accelerating decomposition temperature (SADT)</td>
<td>60 °C Method: UN-Test H.4 SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.438 at 20 °C</td>
</tr>
</tbody>
</table>

**9.2 Other information**

- **Self-Accelerating decomposition temperature (SADT):** 60 °C
- **Method:** UN-Test H.4
- **SADT-Self Accelerating Decomposition Temperature:** Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.
SECTION 10: Stability and reactivity

10.1 Reactivity
Stable under recommended storage conditions.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions: Vapours may form explosive mixture with air.

10.4 Conditions to avoid
Conditions to avoid: Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.

10.5 Incompatible materials
Materials to avoid: Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

10.6 Hazardous decomposition products
Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Not classified based on available information.

Components:

**di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:**

Acute oral toxicity: LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity: LC50 (Rat): > 5.6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity: LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal
toxicity

**Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:**

**Acute oral toxicity**
- LD50 (Rat): > 5.000 mg/kg
- Method: OECD Test Guideline 401

**Acute inhalation toxicity**
- LC50 (Rat): > 5 mg/l
- Exposure time: 8 h
- Test atmosphere: vapour
- Method: OECD Test Guideline 403

**Acute dermal toxicity**
- LD50 (Rabbit): > 5.000 mg/kg
- Method: OECD Test Guideline 402

**Skin corrosion/irritation**
Not classified based on available information.

**Product:**
Remarks: May cause skin irritation and/or dermatitis.

**Components:**

**di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: No skin irritation

**Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:**
- Method: OECD Test Guideline 404
- Result: Mild skin irritation

Remarks: May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation**
Not classified based on available information.

**Product:**
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:**

**di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:**
- Species: Rabbit
- Method: OECD Test Guideline 405
- Result: No eye irritation

**Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:**
- Remarks: No data available

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.
Respiratory or skin sensitisation

Skin sensitisation
Not classified based on available information.

Respiratory sensitisation
Not classified based on available information.

Components:

di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:
Result: Does not cause skin sensitisation.

Germ cell mutagenicity
Not classified based on available information.

Components:

di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:
Genotoxicity in vitro:
Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo:
Remarks: No data available

Carcinogenicity
Not classified based on available information.

Components:

di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:
Species: Mouse
Application Route: Oral
Result: negative

Reproductive toxicity
Not classified based on available information.
Components:
di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:
Effects on fertility: Remarks: No data available
Effects on foetal development: Species: Rat
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 414

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
May be fatal if swallowed and enters airways.

Components:
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:
May be fatal if swallowed and enters airways.

Further information

Product:
Remarks: Solvents may degrease the skin.

Components:
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:
Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:
di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:
Toxicity to fish: LC50 (Brachydanio rerio (zebrafish)): > 0,043 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 1 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

Toxicity to algae: EC10 (Pseudokirchneriella subcapitata (green algae)): 0,11
Toxicity to microorganisms: EC50 (Bacteria): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOEC: 0.0128 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility

Ecotoxicology Assessment
Chronic aquatic toxicity: May cause long lasting harmful effects to aquatic life.

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

Toxicity to fish:
LC0 (Oncorhynchus mykiss (rainbow trout)): 1.000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
EC0 (Daphnia magna (Water flea)): 1.000 mg/l
Exposure time: 48 h

Toxicity to algae:
EC0 (Pseudokirchneriella subcapitata (green algae)): 1.000 mg/l
Exposure time: 72 h
NOELR (Pseudokirchneriella subcapitata (green algae)): 1.000 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOELR: >= 1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Ecotoxicology Assessment
Chronic aquatic toxicity: This product has no known ecotoxicological effects.
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

12.2 Persistence and degradability

Components:

di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:
Biodegradability: Result: Biodegradable
Method: OECD Test Guideline 301D
Biodegradability : Result: rapidly biodegradable

12.3 Bioaccumulative potential

Components:

- **di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:**
  - Bioaccumulation
  - Partition coefficient: \( n\)-octanol/water
  - Bioconcentration factor (BCF): 443
  - \( \log Pow: 6.53 \)

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

- Partition coefficient: \( n\)-octanol/water
- Remarks: No data available

12.4 Mobility in soil

No data available

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.

12.6 Other adverse effects

**Product:**

- Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. May cause long lasting harmful effects to aquatic life.

**Components:**

Hydrocarbons, C11-C12, isoalkanes, <2% aromatics:

- Additional ecological information: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

**Product:**

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

**Contaminated packaging:**

- Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number

<table>
<thead>
<tr>
<th>Code</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>UN 3103</td>
</tr>
<tr>
<td>ADR</td>
<td>UN 3103</td>
</tr>
<tr>
<td>RID</td>
<td>UN 3103</td>
</tr>
<tr>
<td>IMDG</td>
<td>UN 3103</td>
</tr>
<tr>
<td>IATA</td>
<td>UN 3103</td>
</tr>
</tbody>
</table>

14.2 UN proper shipping name

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>ORGANIC PEROXIDE TYPE C, LIQUID (1,1-Di-(tert-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE)</td>
</tr>
<tr>
<td>ADR</td>
<td>ORGANIC PEROXIDE TYPE C, LIQUID (1,1-Di-(tert-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE)</td>
</tr>
<tr>
<td>RID</td>
<td>ORGANIC PEROXIDE TYPE C, LIQUID (1,1-Di-(tert-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE)</td>
</tr>
<tr>
<td>IMDG</td>
<td>ORGANIC PEROXIDE TYPE C, LIQUID (1,1-Di-(tert-BUTYLPEROXY)-3,3,5-TRIMETHYLCYCLOHEXANE)</td>
</tr>
<tr>
<td>IATA</td>
<td>Organic peroxide type C, liquid (1,1-Di-(tert-butylperoxy)-3,3,5-trimethylcyclohexane)</td>
</tr>
</tbody>
</table>

14.3 Transport hazard class(es)

<table>
<thead>
<tr>
<th>Code</th>
<th>Class</th>
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<tbody>
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<td>ADN</td>
<td>5.2</td>
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<tr>
<td>ADR</td>
<td>5.2</td>
</tr>
<tr>
<td>RID</td>
<td>5.2</td>
</tr>
<tr>
<td>IMDG</td>
<td>5.2</td>
</tr>
<tr>
<td>IATA</td>
<td>5.2</td>
</tr>
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</table>

14.4 Packing group

<table>
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<th>Code</th>
<th>Packing group</th>
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<td>ADN</td>
<td>Not assigned by regulation</td>
</tr>
<tr>
<td>ADR</td>
<td>Not assigned by regulation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Classification Code</th>
<th>Labels</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>P1</td>
<td>5.2</td>
</tr>
</tbody>
</table>
### Classification Code
- **P1**

### Labels
- 5.2

### Tunnel restriction code
- (D)

### RID
- **Not assigned by regulation**

### Hazard Identification Number
- 539

### IMDG
- **Not assigned by regulation**

### IATA (Cargo)
- Packing instruction (cargo aircraft): 570
- **Not assigned by regulation**

### IATA (Passenger)
- Packing instruction (passenger aircraft): 570
- **Not assigned by regulation**

### 14.5 Environmental hazards

<table>
<thead>
<tr>
<th>Environmentally hazardous</th>
<th>ADN</th>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
</tr>
</thead>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

### 14.6 Special precautions for user
- Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- 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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59):** Not applicable
- **Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:** Not applicable
- **Regulation (EC) No 850/2004 on persistent organic pol-:** Not applicable

**P6b**

**SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES**

<table>
<thead>
<tr>
<th>Quantity 1</th>
<th>Quantity 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 t</td>
<td>200 t</td>
</tr>
</tbody>
</table>

**Water contaminating class**

(Germany): WGK 1 slightly water endangering Classification according VwVwS, Annex 4.

**Other regulations**

Gefahrengruppe nach § 3 BGV B4: Ib, S+ (German regulatory requirements)

Produkt unterliegt dem Sprengstoffgesetz (SprengG; Stoffgruppe C). (German regulatory requirements)

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

- **DSL (CA):** All components of this product are on the Canadian DSL
- **AICS (AU):** On the inventory, or in compliance with the inventory
- **NZIoC (NZ):** On the inventory, or in compliance with the inventory
- **KECI (KR):** On the inventory, or in compliance with the inventory
- **PICCS (PH):** On the inventory, or in compliance with the inventory
- **IECSC (CN):** On the inventory, or in compliance with the inventory
- **TCSI (TW):** On the inventory, or in compliance with the inventory
- **TSCA (US):** On TSCA Inventory

**15.2 Chemical safety assessment**

This information is not available.

**SECTION 16: Other information**

**Full text of H-Statements**

- **H226:** Flammable liquid and vapour.
- **H241:** Heating may cause a fire or explosion.
- **H304:** May be fatal if swallowed and enters airways.
- **H413:** May cause long lasting harmful effects to aquatic life.

**Full text of other abbreviations**

- **Aquatic Chronic:** Chronic aquatic toxicity
- **Asp. Tox.:** Aspiration hazard
- **Flam. Liq.:** Flammable liquids
- **Org. Perox.:** Organic peroxides
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