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

1.1 Product identifier
Trade name: TMCH-75-AL

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)
Flammable liquids, Category 3
Organic peroxides, Type C
Aspiration hazard, Category 1
Long-term (chronic) aquatic hazard, Category 4

H226: Flammable liquid and vapour.
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.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms: ☢️ ☢️
Signal word: Danger
Hazard statements : 
H226 Flammable liquid and vapour.
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.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : 
Prevention: 
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.

Storage: 
P403 + P235 Store in a well-ventilated place. Keep cool.

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

Hazardous components which must be listed on the label: 
Heptane, 2,2,4,6,6-pentamethyl- (CAS-No. 13475-82-6)

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Chemical nature : Organic Peroxide
Liquid mixture

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

TMCH-75-AL

Version 2.0  Revision Date: 20.02.2019  SDS Number: 600000000194  Date of last issue: 20.03.2018
Date of first issue: 20.03.2018

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EC-No. Index-No. Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide</td>
<td>6731-36-8 229-782-3 01-2119735694-30-0002</td>
<td>Org. Perox. B; H241 Aquatic Chronic 4; H413</td>
<td>&gt;= 70 - &lt; 75</td>
</tr>
<tr>
<td>Heptane, 2,2,4,6,6-pentamethyl-</td>
<td>13475-82-6 236-757-0 01-2119490725-29</td>
<td>Flam. Liq. 3; H226 Asp. Tor. 1; H304 Aquatic Chronic 4; H413</td>
<td>&gt;= 25 - &lt; 30</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: 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.
4.2 Most important symptoms and effects, both acute and delayed

Risks: May be fatal if swallowed and enters airways. Repeated exposure may cause skin dryness or cracking.

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

Suitable extinguishing media: Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media: High volume water jet

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.
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.
- Evacuate personnel to safe areas.
- 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 respective authorities.

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 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: Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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

Further information on storage stability: 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

Contains no substances with occupational exposure limit values.

**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-trimethylcyclohexylidene diperoxide</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>0,1 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>0,13 mg/kg bw/day</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide</td>
<td>Fresh water</td>
<td>0,00021 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0,00021 mg/l</td>
</tr>
<tr>
<td></td>
<td>Intermittent use/release</td>
<td>0,00021 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>2,82 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0,282 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Sewage treatment plant</td>
<td>100 mg/l</td>
</tr>
</tbody>
</table>

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

Appearance : liquid

Colour : colourless

Odour : musty

Odour Threshold : No data available

pH : No data available

Melting point/range : < -25 °C

Boiling point/boiling range : Decomposition: Decomposes below the boiling point.

Flash point : 49 °C

Method: ISO 3679

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 4,02 hPa (38 °C)

Density : 0,87 g/cm3 (20 °C)

Solubility(ies)

Water solubility : No data available

Partition coefficient: n-octanol/water : No data available
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.

Refractive index : 1,434 at 20 °C

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

**Heptane, 2,2,4,6,6-pentamethyl-:**
Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials

Skin corrosion/irritation
Repeated exposure may cause skin dryness or cracking.

Components:

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

**Heptane, 2,2,4,6,6-pentamethyl-:**
Result: Repeated exposure may cause skin dryness or cracking.
Serious eye damage/eye irritation
Not classified based on available information.

Components:

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

**Heptane, 2,2,4,6,6-pentamethyl-:**
Remarks : No data available

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.

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

**Heptane, 2,2,4,6,6-pentamethyl-:**
Germ cell mutagenicity - Assessment: No known effect.

Carcinogenicity
Not classified based on available information.

Components:

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

**Heptane, 2,2,4,6,6-pentamethyl-:**
Carcinogenicity - Assessment: No known effect.

Reproductive toxicity
Not classified based on available information.

Components:

**di-tert-butyl 3,3,5-trimethylcyclohexylidene diperoxide:**
- **Effects on fertility:** Remarks: No data available

**Heptane, 2,2,4,6,6-pentamethyl-:**
Reproductive toxicity - Assessment: No known effect.

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:

**Heptane, 2,2,4,6,6-pentamethyl-:**
May be fatal if swallowed and enters airways.
Further information

**Product:**
Remarks: Solvents may degrease the skin.

**Components:**
Heptane, 2,2,4,6,6-pentamethyl-:
Remarks: May cause headache and dizziness.

### 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 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms:
EC50 (Bacteria): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

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.

Heptane, 2,2,4,6,6-pentamethyl-:
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia (water flea)): > 0.04 mg/l
Exposure time: 48 h
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae: IC50 (algae): > 0.04 mg/l
Exposure time: 72 h
Remarks: Information given is based on data obtained from similar substances.

Ecotoxicology Assessment
Acute aquatic toxicity: This product has no known ecotoxicological effects.
Chronic aquatic toxicity: May cause long lasting harmful effects to aquatic life.

12.2 Persistence and degradability

Components:

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

Heptane, 2,2,4,6,6-pentamethyl-:
Biodegradability: Result: Not readily biodegradable.

12.3 Bioaccumulative potential

Components:

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

Heptane, 2,2,4,6,6-pentamethyl-:
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.

**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>Type</th>
<th>UN 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>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADN</td>
<td>ORGANIC PEROXIDE TYPE C, LIQUID (1,1-DI-(tert-BUTYLPEROXY)-3,3,5-TRIMETHYLICYCLOHEXANE)</td>
</tr>
<tr>
<td>ADR</td>
<td>ORGANIC PEROXIDE TYPE C, LIQUID (1,1-DI-(tert-BUTYLPEROXY)-3,3,5-TRIMETHYLICYCLOHEXANE)</td>
</tr>
<tr>
<td>RID</td>
<td>ORGANIC PEROXIDE TYPE C, LIQUID</td>
</tr>
</tbody>
</table>

15 / 20
14.3 Transport hazard class(es)

**ADN**: 5.2
**ADR**: 5.2
**RID**: 5.2
**IMDG**: 5.2
**IATA**: 5.2

14.4 Packing group

**ADN**
- Packing group: Not assigned by regulation
- Classification Code: P1
- Labels: 5.2

**ADR**
- Packing group: Not assigned by regulation
- Classification Code: P1
- Labels: 5.2
- Tunnel restriction code: (D)

**RID**
- Packing group: Not assigned by regulation
- Classification Code: P1
- Hazard Identification Number: 539
- Labels: 5.2

**IMDG**
- Packing group: Not assigned by regulation
- Labels: 5.2
- EmS Code: F-J, S-R

**IATA (Cargo)**
- Packing instruction (cargo aircraft): 570
- Packing group: Not assigned by regulation
- Labels: Organic Peroxides, Keep Away From Heat

**IATA (Passenger)**
- Packing instruction (passenger aircraft): 570
- Packing group: Not assigned by regulation
- Labels: Organic Peroxides, Keep Away From Heat
14.5 Environmental hazards

**ADN**
Environmentally hazardous : no

**ADR**
Environmentally hazardous : no

**RID**
Environmentally hazardous : no

**IMDG**
Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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
- **REACH - List of substances subject to authorisation (Annex XIV)** : Not applicable
- **Regulation (EC) No 1005/2009 on substances that deplete the ozone layer** : Not applicable
- **Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals** : Not applicable
- **REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)** : Conditions of restriction for the following entries should be considered: Number on list 3


<table>
<thead>
<tr>
<th>P6b</th>
<th>SELF-REACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity 1</td>
<td>50 t</td>
</tr>
<tr>
<td>Quantity 2</td>
<td>200 t</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

TMCH-75-AL

SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

Water contaminating class (Germany): WGK 1 slightly hazardous to water Classification according VwVwS, Annex 4.

Other regulations:
Gefahrgruppe 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 |
| 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 |

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 : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Flam. Liq. : Flammable liquids
Org. Perox. : Organic peroxides

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regula-
Further information

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


### Classification of the mixture:

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 3</td>
<td>H226</td>
<td>Based on product data or assessment</td>
</tr>
<tr>
<td>Org. Perox. C</td>
<td>H242</td>
<td>Based on product data or assessment</td>
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