

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## INP-75-AL

Version	Revision Date:	SDS Number:	Date of last issue: 19.03.2018
3.0	22.02.2019	600000000042	Date of first issue: 22.07.2016

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

#### 1.1 Product identifier

Trade name : INP-75-AL

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

Use of the Sub-  
stance/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)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Organic peroxides, Type D	H242: Heating may cause a fire.
Skin irritation, Category 2	H315: Causes skin irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 4	H413: May cause long lasting harmful effects to aquatic life.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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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.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H413 May cause long lasting harmful effects to aquatic life.

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.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P262 Do not get in eyes, on skin, or on clothing.  
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.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage:**

P403 + P235 Store in a well-ventilated place. Keep cool.  
P411 Store at temperatures not exceeding 0 °C.

**Disposal:**

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

Hazardous components which must be listed on the label:

bis(3,5,5-trimethylhexanoyl) peroxide (CAS-No. 3851-87-4)  
Heptane, 2,2,4,6,6-pentamethyl- (CAS-No. 13475-82-6)

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### 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

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
bis(3,5,5-trimethylhexanoyl) peroxide	3851-87-4 223-356-0 01-2119966134-37-0003	Org. Perox. D; H242 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304	>= 70 - < 75
Heptane, 2,2,4,6,6-pentamethyl-	13475-82-6 236-757-0 01-2119490725-29	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413	>= 25 - < 30

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

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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.  
Causes skin irritation.  
May cause an allergic skin reaction.

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : 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.

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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.

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## 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

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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.

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## 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.<br>Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>Avoid formation of aerosol.<br>Take precautionary measures against static discharges.<br>Never return any product to the container from which it was originally removed.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Avoid confinement.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Wash thoroughly after handling.<br>For personal protection see section 8.<br>Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.<br>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  |

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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.
- Recommended storage temperature : -10 - 0 °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.

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## 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:

Substance name	End Use	Exposure routes	Potential health effects	Value
bis(3,5,5-trimethylhexanoyl) peroxide	Workers	Inhalation	Long-term systemic effects	1.8 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0.67 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
bis(3,5,5-trimethylhexanoyl) peroxide	Fresh water	0.073 mg/l
	Marine water	0.0073 mg/l
	Sewage treatment plant	75 mg/l
	Fresh water sediment	0.48 mg/kg
	Marine sediment	0.048 mg/kg
	Soil	0.054 mg/kg

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### 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

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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/range : < -10 °C

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

Flash point : 58 °C  
Method: ISO 3679

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable



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Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 0.001 hPa (25 °C)

Relative vapour density : No data available

Density : 0.87 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : 0.01 g/l insoluble (5 °C)

Partition coefficient: n-octanol/water : log Pow: 7.03

Viscosity  
Viscosity, dynamic : 6 mPa.s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Organic peroxide

### 9.2 Other information

Self-Accelerating decomposition temperature (SADT) : 20 °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 : 1.436 at 20 °C

Self-ignition : The substance or mixture is not classified as self heating. The substance or mixture is not classified as pyrophoric.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

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### 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

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : LD50 (Rat): 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD0 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### Components:

#### **bis(3,5,5-trimethylhexanoyl) peroxide:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD0 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

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Expert judgement

### 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

Causes skin irritation.

#### Product:

Species : Rabbit  
Method : OECD Test Guideline 431  
Result : Irritating to skin.

Remarks : May cause skin irritation in susceptible persons.

#### Components:

### bis(3,5,5-trimethylhexanoyl) peroxide:

Species : Rabbit  
Method : OECD Test Guideline 431  
Result : Irritating to skin.

### 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.

#### Product:

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

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

#### Components:

### bis(3,5,5-trimethylhexanoyl) peroxide:

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

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

Remarks : No data available

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

#### Product:

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Weak sensitizer

Remarks : Causes sensitisation.

#### Components:

##### bis(3,5,5-trimethylhexanoyl) peroxide:

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : The product is a skin sensitizer, sub-category 1B.

### Germ cell mutagenicity

Not classified based on available information.

#### Product:

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative  
Method: OECD Test Guideline 473  
Result: negative  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Remarks: No data available

#### Components:

##### bis(3,5,5-trimethylhexanoyl) peroxide:

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative  
Method: OECD Test Guideline 473  
Result: negative

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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.

### **Product:**

Remarks : This information is not available.

### **Components:**

#### **bis(3,5,5-trimethylhexanoyl) peroxide:**

Remarks : This information is not available.

### **Heptane, 2,2,4,6,6-pentamethyl-:**

Carcinogenicity - Assessment : No known effect.

### **Reproductive toxicity**

Not classified based on available information.

### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### **Components:**

#### **bis(3,5,5-trimethylhexanoyl) peroxide:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### **Heptane, 2,2,4,6,6-pentamethyl-:**

Reproductive toxicity - Assessment : No known effect.

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### STOT - single exposure

Not classified based on available information.

#### Product:

Remarks : No data available

### STOT - repeated exposure

Not classified based on available information.

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

Species : Rat  
NOAEL : 300 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407

#### Components:

##### **bis(3,5,5-trimethylhexanoyl) peroxide:**

Species : Rat  
NOAEL : 300 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Method : OECD Test Guideline 407

### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Product:

May be fatal if swallowed and enters airways.

#### Components:

##### **bis(3,5,5-trimethylhexanoyl) peroxide:**

May be fatal if swallowed and enters airways.

##### **Heptane, 2,2,4,6,6-pentamethyl-:**

May be fatal if swallowed and enters airways.

### Further information

#### Product:

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Remarks : Solvents may degrease the skin.

### Components:

#### **Heptane, 2,2,4,6,6-pentamethyl-:**

Remarks : May cause headache and dizziness.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 41 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 : > 1,000 mg/l  
Method: OECD Test Guideline 209

#### Components:

#### **bis(3,5,5-trimethylhexanoyl) peroxide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

#### **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

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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

#### Product:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

#### Components:

##### **bis(3,5,5-trimethylhexanoyl) peroxide:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

##### **Heptane, 2,2,4,6,6-pentamethyl-:**

Biodegradability : Result: Not readily biodegradable.

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Bioconcentration factor (BCF): 3.2

#### Components:

##### **bis(3,5,5-trimethylhexanoyl) peroxide:**

Bioaccumulation : Bioconcentration factor (BCF): 3.2

Partition coefficient: n-octanol/water : log Pow: 3.34

##### **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



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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.  
Harmful to aquatic life.  
May cause long lasting harmful effects to aquatic life.

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## 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.

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 3115  
ADR : UN 3115  
RID : UN 3115  
Not permitted for transport  
IMDG : UN 3115

### 14.2 UN proper shipping name

ADN : ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED  
(DI-(3,5,5-TRIMETHYLHEXANOYL) PEROXIDE)  
ADR : ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED  
(DI-(3,5,5-TRIMETHYLHEXANOYL) PEROXIDE)

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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**RID** : ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED  
Not permitted for transport

**IMDG** : ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED  
(DI-(3,5,5-TRIMETHYLHEXANOYL) PEROXIDE)

### 14.3 Transport hazard class(es)

**ADN** : 5.2  
**ADR** : 5.2  
**RID** : Not permitted for transport  
**IMDG** : 5.2

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : P2  
Labels : 5.2

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : P2  
Labels : 5.2  
Tunnel restriction code : (D)

**RID** : Not permitted for transport

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

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : no

**ADR**  
Environmentally hazardous : no

**RID** : Not permitted for transport

**IMDG**  
Marine pollutant : no

### 14.6 Special precautions for user

#### Additional advice:

Temperature controlled transport.:  
Control temperature : 0 °C  
Emergency temperature : 10 °C

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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.

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## 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 850/2004 on persistent organic pollutants : 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

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

P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES	Quantity 1 50 t	Quantity 2 200 t
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#### Other regulations:

Gefahrgruppe nach § 3 BGV B4: Ib (German regulatory requirements)

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

| DSL (CA) : All components of this product are on the Canadian DSL

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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

For further information see eSDS.

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## SECTION 16: Other information

### Full text of H-Statements

H226	:	Flammable liquid and vapour.
H242	:	Heating may cause a fire.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
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
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation

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 Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal

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Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### 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.

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Flam. Liq. 3	H226
Org. Perox. D	H242
Skin Irrit. 2	H315
Skin Sens. 1	H317
Asp. Tox. 1	H304
Aquatic Chronic 4	H413

### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Based on product data or assessment
Calculation method
Based on product data or assessment
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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