



# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

version: 1.0

replaces version: -

UFI: 7300-P0FR-9009-GPM2

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

### 1.1 Product identifier

TRIBUNOL BRAKE CLEANER

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

#### Use of the substance/mixture:

Solvents, Degreaser

#### Uses advised against:

No further relevant information available.

### 1.3 Details of the supplier of the safety data sheet

Tributech GmbH  
Windhauser Weg 2  
41366 Schwalmtal

Telephone: +49 (0)2163 889 3444

Fax: +49 (0)2163 889 3456

E-Mail: [info@tributech.de](mailto:info@tributech.de)

### 1.4 Emergency telephone number

Poison Control Centre (Bonn): +49 (0) 228 19240 (available 24 hours a day)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

#### Physical hazards:

Flam. Liq. 2; H225

#### Health Hazards:

Skin Irrit. 2; H315

STOT SE 3; H336

Asp. Tox. 1; H304

#### Environmental Hazards:

Aquatic Chronic 2; H411

### 2.2 Label elements

#### Hazard-determining components for labelling

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane



## Classification according to Regulation (EC) No 1272/2008

### Signal Words:

Danger

### Pictograms:



### Hazard Statements:

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to kidneys through prolonged or repeated exposure. Route of exposure: Ingestion.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

### Supplemental label information:

EUH066 Repeated exposure may cause skin dryness or cracking.

### Precautionary Statements:

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

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

## 2.3 Other hazards

PBT: Not applicable

vPvB: Not applicable

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Dangerous components:

| CAS No  | Chemical name                                                                                                |          |                  | Quantity     |
|---------|--------------------------------------------------------------------------------------------------------------|----------|------------------|--------------|
|         | EC No                                                                                                        | Index No | REACH No         |              |
|         | Classification (Regulation (EC) No 1272/2008)                                                                |          |                  |              |
|         | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane                                           |          |                  | 75 - < 100 % |
|         | 921-024-6                                                                                                    |          | 01-2119475514-35 |              |
|         | Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336, EUH066 |          |                  |              |
| 67-63-0 | propan-2-ol                                                                                                  |          |                  | 2.5 - < 10 % |
|         | 200-661-7                                                                                                    |          | 01-2119457558-25 |              |
|         | Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336                                                      |          |                  |              |

For the wording of the listed hazard phrases refer to section 16.



## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information:**

Instantly remove any clothing soiled by the product.

**After inhalation:**

Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place und transport the patient in a recovery position.

**After contact with skin:**

Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.

**After contact with eyes:**

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

**After ingestion:**

In the event of spontaneous vomiting, keep the head below hip height to prevent aspiration of the product. Do not induce vomiting; instantly call for medical help.

**Information for the doctor:**

Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal.

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

Headache, dizziness, nausea, unconsciousness, dryness of the skin. Irritation of the skin.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**Unsuitable extinguishing media:**

Water with a full water jet.

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

Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.



### **5.3 Advice for firefighters**

Collect contaminated fire fighting water separately. It must not enter drains. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Endangered containers in the surrounding area should be cooled with a water-hose.

**Protective equipment:**

Wear full protective suit with self-contained breathing apparatus (see section 8).

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep off unprotected persons. Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.

### **6.2 Environmental precautions**

Prevent material from reaching sewage system, holes and cellars. Inform respective authorities in case product reaches water or sewage system. If large amounts are released, the authorities must be informed.

### **6.3 Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.

### **6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

**Advice on safe handling:**

Keep containers tightly sealed. Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact. Prevent formation of aerosols.

**Advice on protection against fire and explosion:**

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

### **7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

Protect against direct sunlight, other sources of heat and ignition. Keep containers tightly closed. Store in cool, dry conditions

### Requirements for storage rooms and vessels:

Observe official regulations on storage and handling of water hazardous substances

Recommended materials: For containers or container linings, use mild steel, stainless steel.

For container paints, use zinc silicate, epoxy resins. Store in cool location.

### Hints on joint storage:

Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.

### Storage class according to TRGS 510:

3 Flammable liquids (TRGS 510, Storage of hazardous substances in portable containers)

## 7.3 Specific end uses

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational Exposure Limits (TRGS 900):

| CAS No | Substance                                                               | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category | Origin   |
|--------|-------------------------------------------------------------------------|-----|-------------------|---------------------|----------|----------|
| -      | Hydrocarbon mixtures, Fractions (RCP group): C9–C14 Aliphatic compounds |     | 300               |                     | 2(II)    | TRGS 900 |
| -      | Hydrocarbon mixtures, Fractions (RCP group): C9–C14 Aromatics           |     | 50                |                     | 2(II)    | TRGS 900 |

DNEL/DMEL values:

| CAS No                   | Substance                                                                              |          |                         |  |
|--------------------------|----------------------------------------------------------------------------------------|----------|-------------------------|--|
| 64742-54-7               | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L) |          |                         |  |
| Worker DNEL, long-term   | inhalation                                                                             | systemic | 2,73 mg/m <sup>3</sup>  |  |
| 64742-62-7               | Residual oils (petroleum), solvent-dewaxed; Baseoil - unspecified (Note L)             |          |                         |  |
| Worker DNEL, long-term   | inhalation                                                                             | systemic | 2,73 mg/m <sup>3</sup>  |  |
| Worker DNEL, long-term   | inhalation                                                                             | local    | 5,58 mg/m <sup>3</sup>  |  |
| Worker DNEL, long-term   | dermal                                                                                 | systemic | 0,97 mg/kg bw/day       |  |
| Consumer DNEL, long-term | inhalation                                                                             | local    | 1,19 mg/m <sup>3</sup>  |  |
| Consumer DNEL, long-term | oral                                                                                   | systemic | 0,74 mg/kg bw/day       |  |
| 68784-31-6               | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |          |                         |  |
| Worker DNEL, long-term   | inhalation                                                                             | systemic | 2,93 mg/m <sup>3</sup>  |  |
| Worker DNEL, acute       | inhalation                                                                             | systemic | 496,4 mg/m <sup>3</sup> |  |
| Worker DNEL, long-term   | dermal                                                                                 | systemic | 10,42 mg/kg bw/day      |  |
| Worker DNEL, acute       | dermal                                                                                 | systemic | 100 mg/kg bw/day        |  |
| Consumer DNEL, long-term | inhalation                                                                             | systemic | 11,75 mg/m <sup>3</sup> |  |
| Consumer DNEL, acute     | inhalation                                                                             | systemic | 198,6 mg/m <sup>3</sup> |  |
| Consumer DNEL, long-term | dermal                                                                                 | systemic | 2,1 mg/kg bw/day        |  |
| Consumer DNEL, acute     | dermal                                                                                 | systemic | 50 mg/kg bw/day         |  |
| Consumer DNEL, long-term | oral                                                                                   | systemic | 0,21 mg/kg bw/day       |  |
| Consumer DNEL, acute     | oral                                                                                   | systemic | 29 mg/kg bw/day         |  |

PNEC values:

| CAS No                                           | Substance                                                                              |             |
|--------------------------------------------------|----------------------------------------------------------------------------------------|-------------|
|                                                  | Environmental compartment                                                              |             |
| 64742-54-7                                       | Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified (Note L) |             |
| Secondary poisoning                              |                                                                                        | 9,33 mg/kg  |
| 68784-31-6                                       | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |             |
| Freshwater                                       |                                                                                        | 0,004 mg/l  |
| Freshwater (intermittent releases)               |                                                                                        | 0,044 mg/l  |
| Marine water                                     |                                                                                        | 0,0046 mg/l |
| Freshwater sediment                              |                                                                                        | 0,07 mg/kg  |
| Marine sediment                                  |                                                                                        | 0,007 mg/kg |
| Secondary poisoning                              |                                                                                        | 8,33 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |                                                                                        | 3,8 mg/l    |
| Soil                                             |                                                                                        | 0,055 mg/kg |

## 8.2 Exposure controls

### **Appropriate engineering controls:**

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

### **General protective and hygienic measures:**

Keep away from food, beverages and fodder. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Gases, fumes and aerosols should not be inhaled.

### **Respiratory protection:**

Use breathing protection in case of insufficient ventilation. In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

### **Skin/hand protection:**

Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Nitrile rubber, NBR, recommended thickness of the material:  $\geq 0.4$  mm, penetration time:  $\geq 480$  min. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### **Eye/face protection:**

Tightly sealed safety glasses.

### **Body protection:**

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                         |                        |
|-----------------------------------------|------------------------|
| <b>Physical state:</b>                  | Fluid                  |
| <b>Colour:</b>                          | colourless             |
| <b>Odour:</b>                           | characteristic         |
| <b>pH-Value:</b>                        | not applicable         |
| <b>Melting/freezing point:</b>          | not determined         |
| <b>Boiling point and boiling range:</b> | 82 °C                  |
| <b>Flash point:</b>                     | -20 °C                 |
| <b>Ignition temperature:</b>            | 367 °C                 |
| <b>Decomposition temperature:</b>       | not applicable         |
| <b>Evaporation rate:</b>                | not determined         |
| <b>Flammability:</b>                    | not applicable         |
| <b>Upper explosion limits:</b>          | 12.0 Vol %             |
| <b>Lower explosion limits:</b>          | 1.0 Vol %              |
| <b>Vapour pressure:</b>                 | not determined         |
| <b>Relative vapour density:</b>         | not determined         |
| <b>Density (at 15 °C):</b>              | 0.72 g/cm <sup>3</sup> |



**Water solubility:**

**Partition coefficient n-octanol/water:**

**Viscosity (at 40 °C):**

**Explosive properties:**

not miscible or difficult to mix

not determined

not determined

Product is not explosive. However, formation of explosive air/steam mixtures is possible.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flames.

### 10.5 Incompatible materials

strong oxidizing agents

### 10.6 Hazardous decomposition products

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, which will include carbon monoxide.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity:**

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



| CAS No     | Chemical name                                                                           |                   |         |               |                    |
|------------|-----------------------------------------------------------------------------------------|-------------------|---------|---------------|--------------------|
|            | Exposure route                                                                          | Dose              | Species | Source        | Method             |
| 64742-54-7 | Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - unspecified (Note L) |                   |         |               |                    |
|            | oral                                                                                    | LD50 > 5000 mg/kg |         | REACH Dossier | OECD 401           |
|            | dermal                                                                                  | LD50 > 5000 mg/kg |         | REACH Dossier | OECD 402           |
| 64742-62-7 | Residual oils (petroleum), solvent-dewaxed; base oil - unspecified (Note L)             |                   |         |               |                    |
|            | oral                                                                                    | LD50 > 5000 mg/kg |         | ECHA          | OECD Guideline 401 |
|            | dermal                                                                                  | LD50 > 5000 mg/kg |         | ECHA          | OECD Guideline 402 |
| 68784-31-6 | Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts  |                   |         |               |                    |
|            | oral                                                                                    | LD50 3400 mg/kg   |         | ECHA          | OECD Guideline 401 |
|            | dermal                                                                                  | LD50 > 5000 mg/kg |         | ECHA          | OECD Guideline 402 |

**Irritation and corrosivity:**

Causes skin irritation.

**Serious eye damage/irritation:**

Temporary, reversible irritation

**Respiratory or skin sensitisation:**

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

**Germ cell mutagenicity:**

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

**Carcinogenicity:**

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

**Reproductive toxicity:**

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

**STOT-single exposure:**

May cause drowsiness or dizziness.

**STOT-repeated exposure:**

May cause damage to the nervous system through prolonged or repeated exposure.

**Aspiration hazard:**

May be fatal if swallowed and enters airways.

**Other information (about experimental toxicology):**

Vapours in higher concentration have an irritating effect on the upper respiratory tract. Very high concentrations may cause dizziness, headaches and unconsciousness.

## 11.2 Information on other hazards

**Endocrine disrupting properties:**

Not all ingredients are listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

| CAS No | Chemical name                                                      |                  |           |                       |        |        |
|--------|--------------------------------------------------------------------|------------------|-----------|-----------------------|--------|--------|
|        | Aquatic toxicity                                                   | Dose             | [h]   [d] | Species               | Source | Method |
|        | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane |                  |           |                       |        |        |
|        | Acute fish toxicity                                                | LC50 1 - 10 mg/l |           | fish                  |        |        |
|        | Acute crustacea toxicity                                           | EC50 1 - 10 mg/l |           | aquatic invertebrates |        |        |
|        | Acute algae toxicity                                               | EC50 1 - 10 mg/l |           | algae                 |        |        |



#### **12.2 Persistence and degradability**

No further relevant information available.

#### **12.3 Bioaccumulative potential**

No further relevant information available.

#### **12.4 Mobility in soil**

No further relevant information available.

#### **12.5 Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

#### **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

#### **12.7 Other adverse effects**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Water hazard class 2 (Self-assessment): hazardous for water according to German AwSV. Do not allow product to reach ground water, water bodies or sewage system.

### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice

from product supplier or from local authorities.

##### **List of Wastes Code:**

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

##### **Contaminated packaging:**

Disposal must be made according to official regulations.

##### **Recommendation:**

After complete emptying and cleaning, send to be reconditioned or recycled. Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging. Other containers: After complete emptying and cleaning, send to be reconditioned or recycled. Caution: Leftovers in the containers may cause the risk of explosion. Uncleaned containers should not be perforated, cut or welded.



## SECTION 14: Transport information

### Land transport (ADR/RID):

14.1 UN number or ID number:

14.2 UN proper shipping name:

14.3 Transport hazard classes:

14.4 Packing group:

14.5 Environmental hazards:

14.6 Special precautions for user:

UN1993

1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane), ENVIRONMENTALLY HAZARDOUS, special provision 640D

3 (F1) Flammable liquids, label: 3

II

Symbol (fish and tree)

Warning: Flammable liquids. Kemler Number: 33, EMS Number: F-E,S-E, Stowage Category B

### Inland waterways transport (ADN):

14.1 UN number or ID number:

14.2 UN proper shipping name:

14.3 Transport hazard classes:

14.4 Packing group:

14.5 Environmental hazards:

14.6 Special precautions for user:

UN1993

1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane), ENVIRONMENTALLY HAZARDOUS, special provision 640D

3 (F1) Flammable liquids, label: 3

II

Symbol (fish and tree)

Warning: Flammable liquids. Kemler Number: 33, EMS Number: F-E,S-E, Stowage Category B

### Marine transport (IMDG):

14.1 UN number or ID number:

14.2 UN proper shipping name:

14.3 Transport hazard classes:

14.4 Packing group:

14.5 Environmental hazards:

14.6 Special precautions for user:

UN1993

FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% nhexane)

3 (F1) Flammable liquids, label: 3

II

-

Warning: Flammable liquids. Kemler Number: 33, EMS Number: F-E,S-E, Stowage Category B

### Air transport (ICAO-TI/IATA-DGR):

14.1 UN number or ID number:

14.2 UN proper shipping name:

14.3 Transport hazard classes:

14.4 Packing group:

14.5 Environmental hazards:

14.6 Special precautions for user:

UN1993

FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% nhexane)

3 (F1) Flammable liquids, label: 3

II

-

Warning: Flammable liquids. Kemler Number: 33, EMS Number: F-E,S-E, Stowage Category B

## 14.7 Maritime transport in bulk according to IMO instruments

### Transport/Additional information:

#### ADR

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

Transport category 2

Tunnel restriction code D/E



## IMDG

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

**UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, < 5% N-HEXANE), 3, II, ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

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

#### EU regulatory information:

Directive 2012/18/EU:

Named dangerous substances - ANNEX I (12. BImSchV): Not all ingredients are listed

Seveso category: E2 Hazardous to the Aquatic Environment; P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

REGULATION (EC) No 1907/2006 ANNEX XVII:

Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:

Not all ingredients are listed

REGULATION (EU) 2019/1148:

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

Not all ingredients are listed

Annex II - REPORTABLE EXPLOSIVES PRECURSORS:

Not all ingredients are listed

#### National regulations:

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

#### Other regulations, limitations and prohibitive regulations:

Substances of very high concern (SVHC) according to REACH, Article 57: CAS: 110-54-3 n-hexane

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.



## SECTION 16: Other information

### Relevant H and EUH statements (number and full text):

H225 – Highly flammable liquid and vapour.  
H304 – May be fatal if swallowed and enters airways.  
H315 – Causes skin irritation.  
H319 – Causes serious eye irritation.  
H336 – May cause drowsiness or dizziness.  
H411 – Toxic to aquatic life with long lasting effects.  
EUH066 – Repeated exposure may cause skin dryness or cracking.

### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
LEV: Local Exhaust Ventilation  
RPE: Respiratory Protective Equipment  
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposition/DNEL)  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
SVHC: Substance of Very High Concern  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

### Disclaimer:

The above information in the safety data sheet corresponds to the best of our knowledge and experience and serves only to describe the product in terms of safety during handling, transport, and disposal. The information does not in any way constitute a (technical) description of the nature of the goods (product specification). The suitability of the product for a specific application cannot be inferred from the information provided in the safety data sheet. Changes to this document are not permitted. The information is not transferable to other products. If the product is mixed, blended, or processed with other materials, or subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced. It is the responsibility of the recipient of our product to comply with applicable federal, state, and local laws in their activities. Please contact us if you require current safety data sheets.

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