# SAFETY DATA SHEET

Cleaner and Degreaser



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

1.1 Product identifier

**Product name** : Cleaner and Degreaser : T710-80EK-Q00R-3X8H HIF

**Product code** : 151150 Color : Colorless.

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

Identified uses

Aerosol product-Cleaning agent

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

CIMCO-Werkzeugfabrik Carl Jul. Müller GmbH & Co. KG Hohenhagener Str. 1-5 42855 Remscheid Postfach 10 02 63

Telefon: +49 (0) 2191 3718-01 Telefax: +49 (0) 2191 3718-86

Email: info@cimco.de www.cimco.de

e-mail address of person responsible for this SDS

: info@cimco.de

### 1.4 Emergency telephone number

Telephone number : Emergency CONTACT (24-Hour-Number):

GBK GmbH +49 (0)6132-84463

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aerosol 1, H222, H229 Skin Irrit, 2, H315 Eye Irrit. 2, H319 **STOT SE 3, H336** 

Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** 







Signal word : Danger

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# **SECTION 2: Hazards identification**

Hazard statements : H222, H229 - Extremely flammable aerosol. Pressurized container: may burst if

heated.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: P280 - Wear protective gloves. Wear eye or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 - Do not spray on an open flame or other ignition source.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment. P261 - Avoid breathing dust or mist. P264 - Wash thoroughly after handling. P251 - Do not pierce or burn, even after use.

**Response**: P391 - Collect spillage.

P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

**Storage** : P405 - Store locked up.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

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

**Disposal** : P501 - Dispose of waste according to applicable legislation.

**Hazardous ingredients**: Naphtha (petroleum), hydrotreated light

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

Supplemental label

elements

articles

: Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: Aspiration hazard - Not applicable.

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

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Naphtha (petroleum), hydrotreated light	REACH #: 01-2119475515-33 EC: 265-151-9 CAS: 64742-49-0	≥25 - ≤50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1]
				[1]

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

SECTION 3: Compositio	n/information on ing	realents		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	REACH #: 01-2119475514-35 EC: 921-024-6 CAS: -	≥25 - ≤50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	01-2119471330-49		[1] [2]
isobutane	REACH #: 01-2119485395-27 EC: 200-857-2 CAS: 75-28-5 Index: 601-004-00-0	1-2119485395-27 C: 200-857-2 AS: 75-28-5		[2]
carbon dioxide	REACH #: pre-registered EC: 204-696-9 CAS: 124-38-9	≤5	Press. Gas (Comp.), H280	[2]
propane	REACH #: 01-2119486944-21 EC: 200-827-9 CAS: 74-98-6 Index: 601-003-00-5	≤5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	[2]
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1] [2]
ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤5	Flam. Liq. 2, H225	[2]
(R)-p-mentha-1,8-diene	REACH #: 01-2119529223-47 EC: 227-813-5 CAS: 5989-27-5 Index: 601-029-00-7	<1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1] [2]
There are no additional ingredients			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### <u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash

clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

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

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering

redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

media

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

Hazards from the substance or mixture : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

**Hazardous combustion** products

Decomposition products may include the following materials: carbon dioxide

discharged to any waterway, sewer or drain.

carbon monoxide

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment and cleaning up

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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Cleaner and Degreaser

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

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance.

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### **Seveso Directive - Reporting thresholds**

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P3a	150 tonne	500 tonne
E2	200 tonne	500 tonne

### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

### Occupational exposure limits

Product/ingredient name	Exposure limit values
acetone	TRGS 900 OEL (Germany, 10/2020).  TWA: 1200 mg/m³ 8 hours.  PEAK: 2400 mg/m³ 15 minutes.  TWA: 500 ppm 8 hours.  PEAK: 1000 ppm 15 minutes.  DFG MAC-values list (Germany, 8/2020).  TWA: 500 ppm 8 hours.  PEAK: 1000 ppm, 4 times per shift, 15 minutes.  TWA: 1200 mg/m³ 8 hours.

isobutane

ethanol

# **SECTION 8: Exposure controls/personal protection**

PEAK: 2400 mg/m³, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 3/2020).

TWA: 2400 mg/m³ 8 hours. PEAK: 9600 mg/m³ 15 minutes. TWA: 1000 ppm 8 hours. PEAK: 4000 ppm 15 minutes.

DFG MAC-values list (Germany, 7/2019).

TWA: 1000 ppm 8 hours.

PEAK: 4000 ppm, 4 times per shift, 15 minutes.

TWA: 2400 mg/m<sup>3</sup> 8 hours.

PEAK: 9600 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

carbon dioxide TRGS 900 OEL (Germany, 10/2020).

TWA: 9100 mg/m³ 8 hours. PEAK: 18200 mg/m³ 15 minutes. TWA: 5000 ppm 8 hours. PEAK: 10000 ppm 15 minutes.

DFG MAC-values list (Germany, 8/2020).

TWA: 5000 ppm 8 hours.

PEAK: 10000 ppm, 4 times per shift, 15 minutes.

TWA: 9100 mg/m<sup>3</sup> 8 hours.

PEAK: 18200 mg/m³, 4 times per shift, 15 minutes.

propane TRGS 900 OEL (Germany, 10/2020).

TWA: 1800 mg/m³ 8 hours.
PEAK: 7200 mg/m³ 15 minutes.
TWA: 1000 ppm 8 hours.
PEAK: 4000 ppm 15 minutes.

DFG MAC-values list (Germany, 8/2020).

TWA: 1000 ppm 8 hours.

PEAK: 4000 ppm, 4 times per shift, 15 minutes.

TWA: 1800 mg/m<sup>3</sup> 8 hours.

PEAK: 7200 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

propan-2-ol TRGS 900 OEL (Germany, 3/2020).

TWA: 500 mg/m³ 8 hours. PEAK: 1000 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 400 ppm 15 minutes.

DFG MAC-values list (Germany, 7/2019).

TWA: 200 ppm 8 hours.

PEAK: 400 ppm, 4 times per shift, 15 minutes.

TWA: 500 mg/m<sup>3</sup> 8 hours.

PEAK: 1000 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 10/2020).

TWA: 380 mg/m³ 8 hours. PEAK: 1520 mg/m³ 15 minutes. TWA: 200 ppm 8 hours. PEAK: 800 ppm 15 minutes.

DFG MAC-values list (Germany, 8/2020).

TWA: 200 ppm 8 hours.

PEAK: 800 ppm, 4 times per shift, 15 minutes.

TWA: 380 mg/m<sup>3</sup> 8 hours.

PEAK: 1520 mg/m³, 4 times per shift, 15 minutes.

(R)-p-mentha-1,8-diene DFG MAC-values list (Germany, 8/2020). Absorbed through

**skin. Skin sensitizer.** TWA: 5 ppm 8 hours.

PEAK: 20 ppm, 4 times per shift, 15 minutes.

# **SECTION 8: Exposure controls/personal protection**

TWA: 28 mg/m<sup>3</sup> 8 hours.

PEAK: 112 mg/m³, 4 times per shift, 15 minutes.

TRGS 900 OEL (Germany, 10/2020). Absorbed through skin.

Skin sensitizer.

PEAK: 20 ppm 15 minutes. PEAK: 112 mg/m³ 15 minutes.

TWA: 5 ppm 8 hours. TWA: 28 mg/m<sup>3</sup> 8 hours.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Naphtha (petroleum), hydrotreated light	DNEL	Long term Inhalation	3.25 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	25.9 mg/ kg bw/day	Workers	Systemic
acetone	DNEL	Long term Oral	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	186 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	200 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	1210 mg/ m³	Workers	Systemic
	DNEL	Short term Inhalation	2420 mg/ m³	Workers	Local
propan-2-ol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m³	General population	Systemic
	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	500 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic

# **SECTION 8: Exposure controls/personal protection**

(R)-p-mentha-1,8-diene	DNEL	Long term Oral	4.76 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8.33 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	33.3 mg/m³	Workers	Systemic
	DNEL	Short term Dermal	0.111 mg/ cm²	General population	Local
	DNEL	Short term Dermal	0.222 mg/ cm <sup>2</sup>	Workers	Local

#### **PNECs**

No PNECs available.

#### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended: 1 - 4 hours (breakthrough time): nitrile rubber 4 - 8 hours (breakthrough time): Viton®/butyl rubber

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapor (Type AX) and particulate filter

# SECTION 8: Exposure controls/personal protection

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state : Aerosol. Color Colorless. Odor Characteristic. **Odor threshold** Not available. Melting point/freezing point : Not available. Initial boiling point and : Not available.

boiling range

Flammability (solid, gas) : Highly flammable in the presence of the following materials or conditions: open

flames, sparks and static discharge.

Flammable in the presence of the following materials or conditions: heat.

Upper/lower flammability or

explosive limits

: Lower: 1.5%

: Closed cup: Not applicable. Flash point

: Not applicable. Auto-ignition temperature : Not available. **Decomposition temperature** pН : Not applicable.

: Kinematic: Not applicable. **Viscosity** 

Solubility(ies) : Insoluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

Vapor pressure

	Vapor Pressure at 20°C		Vapo	r pressu	re at 50°C	
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Carbon dioxide, gas	42903.49	5720				
propane	6300.51	840				
Isobutane	2280.19	304				
acetone	180.01	24				
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	45.004	6				
ethanol	42.95	5.7				
Naphtha (petroleum), hydrotreated light	42.15	5.6	OECD 104	357.48	47.7	OECD 104
Isopropyl alcohol	33	4.4				
(R)-p-mentha-1,8-diene	1.5	0.2				

**Evaporation rate** : Not available. Relative density : Not available. Density : 0.699 g/cm<sup>3</sup> Vapor density : Not available.

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# **SECTION 9: Physical and chemical properties**

**Explosive properties**: Explosive in the presence of the following materials or conditions: open flames,

sparks and static discharge.

Oxidizing properties : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

Fire point : >200°C

SADT : Not available.

SAPT : Not available.

Heat of combustion : 9.394 kJ/g

**Aerosol product** 

**Type of aerosol** : Spray

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**10.5 Incompatible materials** : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
acetone	LD50 Oral	Rat	5800 mg/kg	-
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
(R)-p-mentha-1,8-diene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4400 mg/kg	-

**Conclusion/Summary**: Not available.

### **Acute toxicity estimates**

	ATE value
Not available.	

### Irritation/Corrosion

# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
acetone	Eyes - Mild irritant	Human	-	186300 ppm	-
	Eyes - Mild irritant	Rabbit	-	10 uL	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	395 mg	-
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
(R)-p-mentha-1,8-diene	Skin - Mild irritant	Rabbit	-	24 hours 10 %	-

Conclusion/Summary

: Not available.

**Sensitization** 

**Conclusion/Summary** 

: Not available.

**Mutagenicity** 

**Conclusion/Summary**: Not available.

Carcinogenicity

**Conclusion/Summary**: Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Naphtha (petroleum), hydrotreated light	Category 3	-	Narcotic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	Category 3	-	Narcotic effects
acetone	Category 3	-	Narcotic effects
propan-2-ol	Category 3	-	Narcotic effects

# Specific target organ toxicity (repeated exposure)

Not available.

## **Aspiration hazard**

Product/ingredient name	Result
Naphtha (petroleum), hydrotreated light	ASPIRATION HAZARD - Category 1
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	ASPIRATION HAZARD - Category 1

# **SECTION 11: Toxicological information**

Information on the likely

routes of exposure

: Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation.

**Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate :

: Not available.

effects

Potential delayed effects: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

Other information : Not available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 4.42589 ml/L Marine water	Crustaceans - Acartia tonsa - Copepodid	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5 µg/l Marine water	Fish - Gasterosteus aculeatus - Larvae	42 days
propan-2-ol	Acute EC50 7550 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400000 μg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
(R)-p-mentha-1,8-diene	Acute EC50 421 μg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 688 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Naphtha (petroleum), hydrotreated light	2.2 to 5.2	10 to 2500	high
acetone	-0.23	-	low
carbon dioxide	0.83	-	low
propan-2-ol	0.05	-	low
(R)-p-mentha-1,8-diene	4.38	-	high

### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

**Mobility** : Not available.

# 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# **SECTION 12: Ecological information**

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: The classification of the product may meet the criteria for a hazardous waste.

#### European waste catalogue (EWC)

Waste code	Waste designation
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

#### **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
15 01 04 15 01 02	metallic packaging plastic packaging

Special precautions

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2	2.1	2.1
14.4 Packing group	-	-	-
14.5 Environmental hazards	Yes.  Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane, Naphtha (petroleum), hydrotreated light	Yes.  Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, <5% n-hexane, Naphtha (petroleum), hydrotreated light	Yes. The environmentally hazardous substance mark is not required.

### **Additional information**

# SECTION 14: Transport information

ADR/RID The environmentally hazardous substance mark is not required when transported in

> sizes of ≤5 L or ≤5 kg. Limited quantity 1 L

**Special provisions** 190, 327, 625, 344

Tunnel code (D)

ADR Classification Code: 5F

**IMDG** The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Emergency schedules F-D, S-U

**Special provisions** 63, 190, 277, 327, 344, 381, 959

**IATA** : The environmentally hazardous substance mark may appear if required by other

transportation regulations.

**Quantity limitation** Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities -

Passenger Aircraft: 30 kg. Packaging instructions: Y203.

Special provisions A145, A167, A802

14.6 Special precautions for

user

: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to IMO

instruments

: Not available.

# SECTION 15: Regulatory information

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

### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

### **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

# Restrictions on Manufacture, Marketing and Use

Product name	CAS#	%	Restriction
Naphtha (petroleum), hydrotreated light Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	64742-49-0 -	25 - 50 25 - 50	3, 28 3
Isobutane	75-28-5	5 - 10	28, 29

#### Other EU regulations

Industrial emissions

: Listed

(integrated pollution prevention and control) -

Water

**Industrial emissions** 

: Not listed

(integrated pollution prevention and control) -

Ozone depleting substances (1005/2009/EU)

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Germany

Cleaner and Degreaser

# **SECTION 15: Regulatory information**

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### **Persistent Organic Pollutants**

Not listed.

### Aerosol dispensers

3



Extremely flammable

### Detergents - Regulation (EC) No 907/2006

**Annex VIIA - Labelling for Contents** 

Identification	Concentration
	30% and more less than 5%

**VOC content** : 97.44 % **VOC (g/L)** : 681.4

**Seveso Directive** 

This product is controlled under the Seveso Directive.

# **Danger criteria**

Category	
P3a E2	
E2	

### **National regulations**

Product/ingredient name	List name	Name on list	Classification	Notes
acetone	DFG MAC-values list	Acetone	RE2	-
isobutane	DFG MAC-values list	Butane (both isomers)	Listed	-
propane	DFG MAC-values list	Propane	Listed	-
propan-2-ol	DFG MAC-values list	2-Propanol; Isopropyl	Listed	-
ethanol (R)-p-mentha-1,8-diene	DFG MAC-values list DFG MAC-values list	Ethanol; Ethyl alcohol D-Limonene	K3, M3 Listed	-

Storage class (TRGS 510) : 2B

## **Hazardous incident ordinance**

This product is controlled under the Germany Hazardous Incident Ordinance.

## **Danger criteria**

Category	Reference number
P3a	1.2.3.1
E2	1.3.2

Hazard class for water

: 2

Technical instruction on air quality control

: TA-Luft Number 5.2.5: 47.6-96% TA-Luft Class II - Number 5.2.7.1.1: 25-50%

**International regulations** 

# **SECTION 15: Regulatory information**

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : All components are listed or exempted.

Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

**Turkey**: All components are listed or exempted.

United States : Not determined.Viet Nam : Not determined.

15.2 Chemical Safety

Assessment

: This product contains substances for which Chemical Safety Assessments are still

required.

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

CLP = Classification, Labelling and Packaging Regulation (EC) No.

1272/20081

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aerosol 1, H222, H229	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 2, H411	Calculation method

### Full text of abbreviated H statements

## **SECTION 16: Other information**

H220	Extremely flammable gas.
H222, H229	Extremely flammable aerosol. Pressurized container: may burst if
	heated.
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Full text of classifications [CLP/GHS]

Aerosol 1 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Asp. Tox. 1 Eye Irrit. 2 Flam. Gas 1A Flam. Liq. 2 Flam. Liq. 3 Press. Gas (Comp.) Skin Irrit. 2	AEROSOLS - Category 1 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE GASES - Category 1A FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1 STOT SE 3	SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

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