according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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# Wasp-Ex 750ml

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

## 1.1. Product identifier

Trade name/designation:

# Wasp-Ex 750ml

## **Article No.:**

T478075

UFI:

WDSA-CYM7-M20U-PVJ5

# 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

Insecticide (biocide PT18), spray for the control of wasp nests and wasp larvae

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

### Supplier:

## **KANDO Service GmbH**

Hartleitnerstraße 3 4653 Eberstalzell

Austria

**Telephone:** +43 (0) 7241 213 79

E-mail: msds@kando.eu

# 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Aspiration hazard (Asp. Tox. 1)	H304: May be fatal if swallowed and enters airways.	
Hazardous to the aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (Aquatic Chronic 1)	H410: Very toxic to aquatic life with long lasting effects.	

#### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:



GHS02 Flame



GHS09 Environment

Signal word: Danger

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# Hazard components for labelling:

Hvdrocarbons, C11-C13, iso-alkanes, <2% aromatics

Hazard statements for physical hazards				
H222	H222 Extremely flammable aerosol.			
H229 Pressurised container: May burst if heated.				

Hazard statements for environmental hazards		
H410 Very toxic to aquatic life with long lasting effects.		

Supplemental hazard information		
EUH066	Repeated exposure may cause skin dryness or cracking.	

Precautionary statements Prevention			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P211	Do not spray on an open flame or other ignition source.		
P251	Do not pierce or burn, even after use.		
P260	Do not breathe spray.		
P262	Do not get in eyes, on skin, or on clothing.		
P271	Use only outdoors or in a well-ventilated area.		
P273	Avoid release to the environment.		

Precautionary statements Response			
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.		
P304 + P340	P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P331 Do NOT induce vomiting.			

Precautionary statements Storage		
P403 Store in a well-ventilated place.		
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.		

#### 2.3. Other hazards

#### Other adverse effects:

This product does not contain components in concentrations of 0.1% or higher that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB). This product does not contain any ingredients considered to have endocrine disrupting properties under Article 57(f) of REACH, Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 in quantities of 0.1% or more.

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

# 3.2. Mixtures

# Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 920-901-0 REACH No.: 01-2119456810-40	Hydrocarbons, C11-C13, iso-alkanes, <2% aromatics Asp. Tox. 1 (H304) <p>♠ Danger</p>	40 - 60 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	Butane (with < 0,1 % butadiene (203-450-8)) Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) <p>♠ Danger</p>	30 - 40 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)  Danger	10 - 20 Vol-%

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 23031-36-9 EC No.: 245-387-9 Index No.: 607-431-00-9	Prallethrin (ISO) Acute Tox. 3 (H331), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410)  Danger M-factor (acute): 100 M-factor (chronic): 100	0.1 Vol-%
CAS No.: 26046-85-5 EC No.: 247-431-2	S No.: 26046-85-5 <b>1R-trans-Phenothrin</b>	

Full text of H- and EUH-phrases: see section 16.

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

## 4.1. Description of first aid measures

#### **General information:**

If unconscious, position and transport in stable lateral position.

## Following inhalation:

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still. Consult a doctor if symptoms persist.

#### In case of skin contact:

Take off immediately all contaminated clothing and wash it before reuse. In case of contact with skin, wash off with plenty of soap and water.

Consult a doctor if symptoms persist.

### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion:

Rinse the mouth with water. Do NOT induce vomiting. Get medical advice/attention.

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

Inhalation: no particular risks if handled properly.

Skin contact: repeated contact may cause brittle or cracked skin.

Ingestion: ingestion unlikely. Eye contact: may cause irritation.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide (CO2), Extinguishing powder, Foam, Water spray jet

#### Unsuitable extinguishing media:

Water in full jet

# 5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Pressurized container: May burst if heated.

#### Hazardous combustion products:

Carbon oxides (COx), Nitrogen oxides (NOx), Smoke

#### 5.3. Advice for firefighters

In case of fire, wear self-contained breathing apparatus and full protective suit.

Do not inhale explosion and combustion gases.

#### 5.4. Additional information

If possible, remove containers from the danger zone.

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Cool endangered containers with water spray. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

#### Personal precautions:

Wear protective equipment. Keep unprotected persons away.

Provide adequate ventilation.

Remove all sources of ignition.

Avoid contact with eyes and skin.

Do not breathe mist/vapours/spray.

#### 6.1.2. For emergency responders

No data available

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of spillage into water or sewage system, inform the competent authorities.

# 6.3. Methods and material for containment and cleaning up

#### For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Take up mechanically, placing in appropriate containers for disposal.

Clean soiled surfaces and objects with plenty of water. Collect rinsing water in closable containers and dispose of according to regulations.

### Other information:

Waste containing butane/propane must not be allowed to enter drains where vapours could accumulate and ignite.

#### 6.4. Reference to other sections

See section 7 for further information on safe handling.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### **Protective measures**

#### Advices on safe handling:

The usual precautions when handling chemicals must be observed.

Observe instructions for use.

Ensure good ventilation/extraction at the workplace.

Do not breathe mist/vapours/spray.

Wash hands before breaks and after work.

#### Fire prevent measures:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

Do not spray against a flame or on a glowing object.

Only use non-sparking tools.

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

# Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

The official regulations for the storage of pressurised gas packages must be observed. Protect from direct sunlight.

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#### Hints on storage assembly:

Keep away from food, drink and animal feed.

Do not store together with: Alkalis, Acids, Oxidizing agent

#### Further information on storage conditions:

Store out of reach of children and pets. To reduce the risk of falling, pallets should be positioned as close to the floor as possible. When stacking the packages, make sure that the packages of the lower layers are not compressed (risk of leakage due to compression).

## 7.3. Specific end use(s)

#### **Recommendation:**

Observe instructions for use.

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

### 8.1. Control parameters

# 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	<ol> <li>Long-term occupational exposure limit value</li> <li>Short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>	
MAK (AT)	Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m³)	
MAK (AT)	Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)	
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)	
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m³)	

## 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Ensure good ventilation/extraction at the workplace.

#### 8.2.2. Personal protection equipment







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

Safety goggles with side protection

## Skin protection:

Hand protection:

Wear protective gloves. (EN 374)

Wash contaminated gloves. In case of contamination inside, damage or if contamination cannot be removed outside, discard.

Glove material:

Selection of glove material considering breakthrough times, permeation rates and degradation.

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NBR (Nitrile rubber), Disposable gloves

Protection index class 6 Breakthrough time: > 480 min.

Permeation time (maximum wear duration):

The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

Body protection:

No special measures required if used properly.

#### Respiratory protection:

Half-face mask

#### Other protection measures:

General protective and hygienic measures:

Avoid any unnecessary contact with the product. Do not eat, drink or smoke in the workplace and maintain scrupulous cleanliness. Do not inhale vapours. Remove contaminated clothing and wash thoroughly before reuse. Wash skin thoroughly after work and before breaks.

# 8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains.

In case of spillage into water or sewage system, inform the competent authorities.

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

# 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: Aerosol Colour: colourless

**Odour:** characteristic

# Safety relevant basis data

Parameter	Value	at °C	① Method
			② Remark
рН	No data available		
Initial boiling point and boiling range	No data available		
Flash point	< 0 °C		
Evaporation rate	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Relative density	0.79		
Bulk density	not applicable		
Water solubility	No data available		
Kinematic viscosity	20.5 mm <sup>2</sup> /s	40 °C	

# 9.2. Other information

Heating leads to pressure build-up, risk of bursting and explosion.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

## 10.4. Conditions to avoid

Direct sunlight, heat, open flames, sparks, hot surfaces, sources of ignition

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# 10.5. Incompatible materials

Acids, Alkalis, Oxidizing agent

### 10.6. Hazardous decomposition products

Carbon oxides (COx), Nitrogen oxides (NOx), Smoke

# **SECTION 11: Toxicological information**

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

**Prallethrin (ISO)** CAS No.: 23031-36-9 EC No.: 245-387-9

LD<sub>50</sub> oral: 412 mg/kg (Rat)

**LD<sub>50</sub> dermal:** >5,000 mg/kg (Rat)

LC<sub>50</sub> Acute inhalation toxicity (dust/mist): 0.658 mg/L 47 h (Rat)

**1R-trans-Phenothrin** CAS No.: 26046-85-5 EC No.: 247-431-2

LD<sub>50</sub> oral: >5,000 mg/kg (Rat) LD<sub>50</sub> dermal: >2,000 mg/kg (Rat)

LC<sub>50</sub> Acute inhalation toxicity (dust/mist): >5.3 mg/L 4 h (Rat)

Hydrocarbons, C11-C13, iso-alkanes, <2% aromatics EC No.: 920-901-0

**LD<sub>50</sub> oral:** 5,000 mg/kg (Rat)

LD<sub>50</sub> dermal: 5,000 mg/kg (Rabbit)

LC<sub>50</sub> Acute inhalation toxicity (dust/mist): 5,000 mg/L (Rat)

**propane** CAS No.: 74-98-6 EC No.: 200-827-9

**LD<sub>50</sub> oral:** 5,840 mg/kg (Rat)

LD<sub>50</sub> dermal: 13,900 mg/kg (Rabbit)

LC<sub>50</sub> Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)

LC<sub>50</sub> Acute inhalation toxicity (vapour):  $\geq$ 50 mg/L 4 h (Rat)

#### Acute oral toxicity:

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

## Acute dermal toxicity:

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

## Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

Based on available data, the classification criteria are not met. Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/irritation:

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

# 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:

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

### **STOT-repeated exposure:**

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

#### Aspiration hazard:

May be fatal if swallowed and enters airways.

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#### **Additional information:**

Experience in humans: Long-term exposure may cause headache, dizziness, eye irritation. May irritate the respiratory tract. Repeated or long-term contact with skin may cause drying/degreasing of the skin and dermatoses.

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties:**

This product does not contain any ingredients considered to have endocrine disrupting properties under Article 57(f) of REACH, Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 in quantities of 0.1% or more.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Prallethrin (ISO) CAS No.: 23031-36-9 EC No.: 245-387-9

LC<sub>50</sub>: 0.012 mg/L 4 d (fish, Oncorhynchus mykiss)

EC<sub>50</sub>: 0.0062 mg/L 2 d (crustaceans, Daphnia magna)

IC<sub>50</sub>: 4.5 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

1R-trans-Phenothrin CAS No.: 26046-85-5 EC No.: 247-431-2

LC<sub>50</sub>: 0.0559 mg/L 4 d (fish)

EC<sub>50</sub>: 0.0046 mg/L 2 d (crustaceans)

EC<sub>50</sub>: >5 mg/L 3 d (Algae/water plant)

NOEC: 0.00047 mg/L (crustaceans)

propane CAS No.: 74-98-6 EC No.: 200-827-9

LC<sub>50</sub>: 9,640 mg/L 4 d (fish, Pimephales promelas)

LC<sub>50</sub>: 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)

LC<sub>50</sub>: 49.9 mg/L 4 d (fish)

EC<sub>50</sub>: >100 mg/L (Algae/water plant, Bacteria)

EC<sub>50</sub>: 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)

EC<sub>50</sub>: 69.43 mg/L 2 d (crustaceans, Daphnia)

NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

ErC<sub>50</sub>: 19.37 mg/L 4 d (Algae/water plant)

LOEC: 1,000 mg/L (Algae/water plant, Algae)

LOEC: 1,000 mg/L (Algae/water plant, Alge)

#### Aquatic toxicity:

No further relevant information available.

#### Additional ecotoxicological information:

No further relevant information available.

#### 12.2. Persistence and degradability

propane CAS No.: 74-98-6 EC No.: 200-827-9

Biodegradation: Yes, rapidly

#### **Biodegradation:**

Butane: half-life in water < 2.6 days, in air 3.2 days; Propane: biodegradation: < 60% (28 days).

#### Additional information:

No further relevant information available.

#### 12.3. Bioaccumulative potential

propane CAS No.: 74-98-6 EC No.: 200-827-9

Log Kow: 1.09

#### **Bioconcentration factor (BCF):**

No further relevant information available.

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## **Accumulation / Evaluation:**

No further relevant information available.

#### 12.4. Mobility in soil

No further relevant information available.

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

Prallethrin (ISO) CAS No.: 23031-36-9 EC No.: 245-387-9

Results of PBT and vPvB assessment: —

1R-trans-Phenothrin CAS No.: 26046-85-5 EC No.: 247-431-2

Results of PBT and vPvB assessment: —

Hydrocarbons, C11-C13, iso-alkanes, <2% aromatics EC No.: 920-901-0

Results of PBT and vPvB assessment: —

Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7

Results of PBT and vPvB assessment: —

propane CAS No.: 74-98-6 EC No.: 200-827-9

Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

The product does not contain any substances with endocrine-disrupting properties.

#### 12.7. Other adverse effects

No further relevant information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

# 13.1.1. Product/Packaging disposal

# Waste codes/waste designations according to EWC/AVV

# Waste code product

# Remark:

59803 (Pressurised gas packages (aerosol cans) with residual contents)

## Waste treatment options

## Appropriate disposal / Package:

Uncleaned packaging:

Dispose of waste according to applicable legislation.

Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

# **SECTION 14: Transport information**

Land transport (ADR/RID)	(ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or	ID number		
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper ship	ping name		
AEROSOLS, ENVIRONMENTALLY HAZARDOUS	AEROSOLS, ENVIRONMENTALLY HAZARDOUS	AEROSOLS	AEROSOLS, FLAMMABLE
14.3. Transport haza	rd class(es)		
		•	
2.1	2.1	2.1	2.1

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)		
14.4. Packing group					
		-			
14.5. Environmental hazards					
(L)	¥2	MARINE POLLUTANT	No		
14.6. Special precautions for user					
<b>Special Provisions:</b> 190   327   344   625	<b>Special Provisions:</b> 190   327   344   625	<b>Special Provisions:</b> 63   190   277   327   344	Special Provisions: A145   A167		
Limited quantity (LQ):	Limited quantity (LQ):	381   959 Limited quantity (LQ):	Limited quantity (LQ): Y203		
Excepted Quantities (EQ): E0	Excepted Quantities (EQ): E0	Siehe SV277 Excepted Quantities (EQ):	Excepted Quantities (EQ): E0		
Classification code: 5F	Classification code: 5F	EmS-No.:	Remark: Attention: Gases		
Tunnel restriction code: (D)	Remark: Attention: Gases	F-D, S-U Remark: Attention: Gases			
Remark: Attention: Gases		Attention. Gases			

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

#### 15.1.1. EU legislation

#### **Authorisations:**

Takes into account Directive 75/324/EEC on aerosol dispensers and Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

# Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII

Restriction conditions: 3; 40 **Other regulations (EU):** 

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids
- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

# Named dangerous substances:

• Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas Does not contain substances on the REACH candidate list. Does not contain substances listed in Annex XIV of REACH. Does not contain substances subject to Regulation (EC) No 1005/2009 on substances that deplete the ozone layer. Does not contain substances subject to Regulation (EC) No 2019/1021 on persistent organic pollutants. Does not contain substances subject to Regulation (EC) No 649/2012 on the export and import of dangerous chemicals. Does not contain substances subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

# Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 638.6 g/L

#### 15.1.2. National regulations

No data available

#### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

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# **SECTION 16: Other information**

# 16.1. Indication of changes

No data available

## 16.2. Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

DNEL derived no-effect level

EC<sub>50</sub> Effective Concentration 50%

ES Exposure scenario

IMO International Maritime Organization
 ISO International Standards Organisation
 LC<sub>50</sub> Lethal (fatal) Concentration 50%

LD<sub>50</sub> Lethal (fatal) Dose 50%

MAK Maximum concentration in the workplace air (CH)

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety & Health

NOEC No Observed Effect Concentration

OSHA Occupational Safety & Health Administration PBT persistent and bioaccumulative and toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals

TRGS Technische Regeln für Gefahrstoffe

UN United Nations

ZNS central nervous system

# 16.3. Key literature references and sources for data

No data available

# 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Aspiration hazard (Asp. Tox. 1)	H304: May be fatal if swallowed and enters airways.	
Hazardous to the aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (Aquatic Chronic 1)	H410: Very toxic to aquatic life with long lasting effects.	

# 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements		
H220	Extremely flammable gas.	
H280	Contains gas under pressure; may explode if heated.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H331	Toxic if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

#### 16.6. Training advice

No data available

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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# 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.