

SAFETY BOOTS

Revision nr. 10

Dated 18/03/2019 Printed on 02/03/2020

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Replaced revision:9 (Dated: 06/12/2018)

Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Product name

SAFETY BOOTS

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Cleaner for air conditioning systems.

1.3. Details of the supplier of the safety data sheet

Name Full address District and Country **TECHNIQUA HANDELS GmbH** Reichenhaller Straße 15 D-83451 Piding

Tel: +49 (8651) - 767 62 51 E-Mail: sales@techniqua.de

1.4. Emergency telephone number

For urgent inquiries refer to

Poison information center

Tel: +49 (0) 6131 - 19240, Langenbeckstraße 1, D- 55131 Mainz

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Danger

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains:, (S)-p-Mentha-1,8-diene May produce an allergic reaction.

Precautionary statements:

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

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F.

P211 Do not spray on an open flame or other ignition source.
P280 Wear protective gloves / eye protection / face protection.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains: Rectified Hydrocarbons by-products from synthetic process of Turpentine and acid, alcohols fraction

Orange sweet ext.
PROPAN-2-OL
ACETONE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008 (CLP)

PROPANE

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CAS 74-98-6	45 ≤ x < 49	Flam. Gas 1 H220, Press. Gas (Liq.) H280, Classification Annex VI to the CLP Regulation: U	n note according to
EC 200-827-9		Affilex VI to the CLF Regulation. O	
INDEX 601-003-00-5			
Reg. no. 01-2119486944-21			
HYDROCARBONS C4			
CAS 87741-01-3	29 ≤ x < 33	Flam. Gas 1 H220, Press. Gas H280, Classification note	e according to Annex
EC 289-339-5		VI to the CLP Regulation: K U	
INDEX 649-113-00-2			
Reg. no. 01-2119480480-41			
PROPAN-2-OL			
CAS 67-63-0	20 ≤ x < 22,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	
EC 200-661-7			
INDEX 603-117-00-0			
Reg. no. 01-2119457558-25			
ACETONE			
CAS 67-64-1	2 ≤ x < 2,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336,	EUH066
EC 200-662-2			
INDEX 606-001-00-8			
Reg. no. 01-2119471330-49			
Orange sweet ext.			
CAS 8028-48-6	$0,45 \le x < 0,5$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315,	Skin Sens. 1 H317,
EC 232-433-8		Aquatic Chronic 1 H410 M=1	
INDEX -			
Reg. no. 01-2119493353-35-XXXX			
DIDECYLDIMETHYLAMMONIUM CHLORIDE	0.0 < 4 . 0.05	Acute Ten A 1900 Chie Com AD 1944 Fire Dom A 15	MO Aquatia Channia 4
CAS 7173-51-5	$0.2 \le x < 0.25$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H3 H410 M=1	318, Aquatic Chronic 1
EC 230-525-2			
INDEX 612-131-00-6			
Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction			
CAS -	$0,2 \le x < 0,25$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Sens. 1 H317, Aquatic Chronic 2 H411	Skin Irrit. 2 H315, Skin
EC 949-141-8		22	
INDEX -			
Reg. no. 01-2119553062-49-XXXX			

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 75,50 %

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SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

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Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

CZE	Ceská Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

PROPANE			
Threshold Limit Value			
Туре	Country	TWA/8h	STEL/15min

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		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
TLV	DNK	1800	1000			
TLV	GRC	1800	1000			
NDS	POL	1800				
TLV-ACGIH			1000			
HYDROCARBONS C4 Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
TLV	DNK	1200	500	2400	1000	
VLA	ESP	1935	800			
VLEP	FRA	800	1900			
WEL	GBR	1450	600	1810	750	
NDS	POL	1900			3000	
PROPAN-2-OL Threshold Limit Value Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
		500		1000		SKIN
	CZE				400	
AGW	DEU	500	200	1000		
AGW MAK	DEU DEU	500	200	1000	400	
AGW MAK TLV	DEU DEU DNK	500 490	200 200	1000	400	
AGW MAK TLV VLA	DEU DEU DNK ESP	500	200	1000	400	
AGW MAK TLV VLA VLEP	DEU DEU DNK ESP FRA	500 490 500	200 200 200	1000 1000 980	400 400 400	
AGW MAK TLV VLA VLEP WEL	DEU DEU DNK ESP FRA GBR	500 490 500	200 200 200 400	1000 1000 980 1250	400 400 400 500	
AGW MAK TLV VLA VLEP WEL TLV	DEU DEU DNK ESP FRA GBR GRC	500 490 500 999 980	200 200 200 200 400 400	1000 1000 980 1250 1225	400 400 400 500 500	
AGW MAK TLV VLA VLEP WEL TLV GVI	DEU DEU DNK ESP FRA GBR GRC HRV	500 490 500 999 980 999	200 200 200 400	1000 1000 980 1250 1225 1250	400 400 400 500	
AGW MAK TLV VLA VLEP WEL TLV GVI NDS	DEU DEU DNK ESP FRA GBR GRC	500 490 500 999 980 999 900	200 200 200 200 400 400 400	1000 1000 980 1250 1225 1250	400 400 400 500 500	
MAK TLV VLA VLEP WEL TLV	DEU DEU DNK ESP FRA GBR GRC HRV	500 490 500 999 980 999	200 200 200 200 400 400	1000 1000 980 1250 1225 1250	400 400 400 500 500	
AGW MAK TLV VLA VLEP WEL TLV GVI NDS	DEU DEU DNK ESP FRA GBR GRC HRV	500 490 500 999 980 999 900 492	200 200 200 200 400 400 400	1000 1000 980 1250 1225 1250 1200 983	400 400 400 500 500 500	
AGW MAK TLV VLA VLEP WEL TLV GVI NDS TLV-ACGIH	DEU DEU DNK ESP FRA GBR GRC HRV	500 490 500 999 980 999 900	200 200 200 200 400 400 400	1000 1000 980 1250 1225 1250	400 400 400 500 500 500	
AGW MAK TLV VLA VLEP WEL TLV GVI NDS TLV-ACGIH ACETONE Threshold Limit Value	DEU DEU DNK ESP FRA GBR GRC HRV POL	500 490 500 999 980 999 900 492	200 200 200 200 400 400 400	1000 1000 980 1250 1225 1250 1200 983	400 400 400 500 500 500	
AGW MAK TLV VLA VLEP WEL TLV GVI NDS TLV-ACGIH ACETONE Threshold Limit Value Type	DEU DEU DNK ESP FRA GBR GRC HRV POL	500 490 500 999 980 999 900 492	200 200 200 400 400 400	1000 1000 980 1250 1225 1250 1200 983	400 400 400 500 500 500	
AGW MAK TLV VLA VLEP WEL TLV GVI NDS TLV-ACGIH ACETONE Threshold Limit Value	DEU DEU DNK ESP FRA GBR GRC HRV POL	500 490 500 999 980 999 900 492 TWA/8h mg/m3	200 200 200 400 400 400	1000 1000 980 1250 1225 1250 1200 983 STEL/15min mg/m3	400 400 400 500 500 500	

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TLV	DNK	600	250			
VLA	ESP	1210	500			
VLEP	FRA	1210	500	2420	1000	
WEL	GBR	1210	500	3620	1500	_
TLV	GRC	1780		3560		
GVI	HRV	1210	500			
VLEP	ITA	1210	500			

1800

TLV-ACGIH	250	500		
Predicted no-effect concentration - PNEC				
Normal value in fresh water		10,6	mg/l	
Normal value in marine water		1,06	mg/l	
Normal value for fresh water sediment		30,4	mg/kg	
Normal value for marine water sediment		3,04	mg/kg	
Normal value for water, intermittent release		21	mg/l	
Normal value of STP microorganisms		100	mg/l	
Normal value for the terrestrial compartment		29,5	mg/kg	

500

500

Health - Derived no-ef	fect level - DNEL / [OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		VND		62 mg/kg/d				
Inhalation		VND		200 mg/m3	VND	2420 mg/m3	VND	1210 mg/m3
Skin		VND		62 mg/kg/d		VND		186 mg/kg/d

Legend:

NDS

VLE

OEL

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

TLV of solvent mixture: 449 mg/m3

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

POL

PRT

EU

600

1210

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HAND PROTECTION

None required.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid Colour colourless Odour characteristic Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Not applicable Boiling range Not available Flash point Not applicable **Evaporation Rate** Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Not available Vapour pressure Vapour density Not available Relative density 0,61 Kg/l

Solubility miscible in water

Partition coefficient: n-octanol/water Not available

Auto-ignition temperature Not available

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Decomposition temperature Not available Viscosity Not available Explosive properties Not available Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC) : 98,60 % - 596,55 g/litre
VOC (volatile carbon) : 75,82 % - 458,69 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

ACETONE

Decomposes under the effect of heat.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

10.4. Conditions to avoid

Avoid overheating.

ACETONE

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

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ACETONE

Incompatible with: acids,oxidising substances.

10.6. Hazardous decomposition products

ACETONE

May develop: ketenes,irritant substances.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:
Not classified (no significant component)
LD50 (Oral) of the mixture:
Not classified (no significant component)
LD50 (Dermal) of the mixture:
Not classified (no significant component)

DIDECYLDIMETHYLAMMONIUM CHLORIDE

LD50 (Oral) 329 mg/kg

LD50 (Dermal) > 1000 mg/kg

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PROPAN-2-OL

LD50 (Oral) 4710 mg/kg Rat

LD50 (Dermal) 12800 mg/kg Rat

LC50 (Inhalation) 72,6 mg/l/4h Rat

ACETONE

LD50 (Oral) 5800 mg/kg (Rat)

LD50 (Dermal) > 15800 mg/kg (Rat)

LC50 (Inhalation) 76 mg/l/4h (Rat)

Rectified Hydrocarbons by-products from synthetic process of Turpentine and acid, alcohols fraction

LD50 (Oral) 3200 mg/kg (Rat)

LD50 (Dermal) 5000 mg/kg (Rabbit)

Orange sweet ext.

LD50 (Oral) 200 mg/kg (Rat)

LC50 (Inhalation) 500 mg/l/4h (Rat)

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction.Contains:(S)-p-Mentha-1,8-diene

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity**

DIDECYLDIMETHYLAMMONIUM

CHLORIDE

 LC50 - for Fish
 0,49 mg/l/96h

 EC50 - for Crustacea
 0,029 mg/l/48h

 Chronic NOEC for Crustacea
 0,021 mg/l

ACETONE

LC50 - for Fish 11000 mg/l/96h (Albumus albumus)
EC50 - for Crustacea 8800 mg/l/48h (Daphnia pulex)
Chronic NOEC for Crustacea 2212 mg/l (Daphnia pulex)

12.2. Persistence and degradability

PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

PROPAN-2-OL Rapidly degradable

ACETONE

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Rapidly degradable

Orange sweet ext.

Degradability: information not available

12.3. Bioaccumulative potential

PROPANE

Partition coefficient: n-octanol/water 1,09

PROPAN-2-OL

Partition coefficient: n-octanol/water 0,05

ACETONE

Partition coefficient: n-octanol/water -0,24 Log Kow

BCF

12.4. Mobility in soil

ACETONE

Partition coefficient: soil/water 17

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1950

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IATA:

14.2. UN proper shipping name

ADR / RID: **AEROSOLS** IMDG: **AEROSOLS**

IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: --Limited Tunnel restriction Quantities: 1 code: (D)

Special Provision: -

EMS: F-D, S-U IMDG: Limited

Quantities: 1

IATA: Cargo: Maximum quantity: 150

Kg Maximum Pass.: Packaging quantity: 75 instructions:

Packaging

203

203

instructions:

Kg A145, A167, Special Instructions:

A802

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

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SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product Point

pint

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

40

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

PROPANE

HYDROCARBONS C4

ACETONE

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

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Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1
Aerosol 3 Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3

Press. Gas (Liq.) Liquefied gas
Press. Gas Pressurised gas

Acute Tox. 4

Asp. Tox. 1

Skin Corr. 1B

Skin corrosion, category 1

Eye Irrit. 2

Skin Irrit. 2

Skin Sens. 1

Acute toxicity, category 4

Aspiration hazard, category 1

Skin corrosion, category 1B

Eye irritation, category 2

Skin Irritation, category 2

Skin sensitization, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may burst if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization

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- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- Regulation (EC) 1272/2008 (CLP) of the European Parliament
 Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.