

1900.0005L.102 - Н.Ц. РАЗРЕДИТЕЛ ЗА МИЕНЕ - ПРОФИ- КОРЕСИЛИН

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code: 1900.0005L.102
Product name: Н.Ц. РАЗРЕДИТЕЛ ЗА МИЕНЕ - ПРОФИ- КОРЕСИЛИН
UFI : 6H60-E059-800T-XHJ2

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

Intended use: Thinner-Solvent for professional and industrial use.

1.3. Details of the supplier of the safety data sheet

Name: MULTICHIMICA SPA
Full address: via G. Galilei, 39
District and Country: 35035 Mestrino (PD)
Italia
Tel. 049 9048611
Fax 049 9001695
e-mail address of the competent person responsible for the Safety Data Sheet: lab@multichimica.it

1.4. Emergency telephone number

For urgent inquiries refer to:
Marco Marano CAVp Osp. Pediatrico Bambino Gesù Roma Piazza Sant'Onofrio, 4
00165 Tel..06 68593726
Anna Lepore Az. Osp. Univ. Foggia Foggia V.le Luigi Pinto, 1 71122
Tel.800183459
Gennaro Savoia Az. Osp. A. Cardarelli Napoli Via A. Cardarelli, 9 80131 Tel. 081
5453333
M. Caterina Grassi Cav.Policlinico Umberto I Roma V.le del Policlinico, 155 161
Tel.06 49978000
Alessandro Barelli CAV Policlinico A. Gemelli Roma Largo Agostino Gemelli, 8
168 Tel.06 3054343
Primo Botti Az. Osp. Careggi U.O. Tossicologia Medica Firenze Largo Brambilla,
3 50134 Tel. 055 7947819
Carlo Locatelli CAV Centro nazionale di Informazione Tossicologia Pavia Via
Salvatore Maugeri ,10 27100 Tel.0382 24444
Franca Davanzo Osp. Niguarda Cà Granda Milano Piazza Ospedale Maggiore, 3
20162 Tel.02 66101029
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Tel. 800883300
Azienda Ospedaliera Integrata di Verona, Piazzale Aristide Stefani,1 37126
800011858

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 2020/878.

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:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.

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SECTION 2. Hazards identification ... / >>

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, category 2	H371	May cause damage to organs.
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:

H225	Highly flammable liquid and vapour.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P331	Do NOT induce vomiting.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P301+P310	IF SWALLOWED: Immediately contact a POISON CENTER or doctor.
P370+P378	In case of fire: use chemical powder and CO2, foam to extinguish.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains: DICHLOROMETHANE
Toulene
METHYL ACETATE
METHANOL

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

2-Metilpentano

Exemption from the obligation to register in accordance with article 2, paragraph 7, letter d of the EC regulation 1907/2006

Mixing of Esano isomers (like 2.3dimetilbutano)

Exemption from the obligation to register in accordance with article 2, paragraph 7, letter d of the EC regulation 1907/2006

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SECTION 3. Composition/information on ingredients

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3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Toulene		
INDEX 601-021-00-3	22,5 ≤ x < 24	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC 203-625-9		
CAS 108-88-3		
REACH Reg. 01-2119471310-51		
METHYL ACETATE		
INDEX 607-021-00-X	21 ≤ x < 22,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 201-185-2		
CAS 79-20-9		
REACH Reg. 01-2119459211-47		
ACETONE		
INDEX 606-001-00-8	15 ≤ x < 16,5	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 200-662-2		
CAS 67-64-1		
REACH Reg. 01-2119471330-49		
ETHYL ACETATE		
INDEX 607-022-00-5	13,5 ≤ x < 15	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 205-500-4		
CAS 141-78-6		
REACH Reg. 01-2119475103-46		
2-Metilpentano		
INDEX 601-007-00-7	8,5 ≤ x < 10	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411
EC 203-523-4		
CAS 107-83-5		
METHANOL		
INDEX 603-001-00-X	3 ≤ x < 3,5	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370 STOT SE 2 H371: ≥ 3% - < 10% ATE Oral: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation vapours: 3 mg/l
EC 200-659-6		
CAS 67-56-1		
REACH Reg. 01-2119433307-44		
Mixing of Esano isomers (like 2.3dimetilbutano)		
INDEX 601-007-00-7	3 ≤ x < 3,5	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411
EC 201-193-6		
CAS 79-29-8		
DICHLOROMETHANE		
INDEX 602-004-00-3	2,5 ≤ x < 3	Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H336
EC 200-838-9		
CAS 75-09-2		
REACH Reg. 01-2119480404-41		
INERT		
INDEX	2 ≤ x < 2,5	
EC		
CAS		
ETHYL ALCOHOL		
INDEX	1,5 ≤ x < 2	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		
CAS 64-17-5		
REACH Reg. 01-2119457610-43		
Methylformiato		
INDEX 607-014-00-1	0,6 ≤ x < 0,7	Flam. Liq. 1 H224, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370, Eye Irrit. 2 H319, STOT SE 3 H335 ATE Oral: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation mists/powders: 0,501 mg/l, ATE Inhalation vapours: 3 mg/l
EC 203-481-7		
CAS 107-31-3		
REACH Reg. 01-2119487303-38		

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SECTION 3. Composition/information on ingredients ... / >>

PROPAN-2-OL

INDEX 603-117-00-0 0,6 ≤ x < 0,7

EC 200-661-7

CAS 67-63-0

REACH Reg. 01-2119457558-25

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

TETRAHYDROFURAN

INDEX 603-025-00-0 0,5 ≤ x < 0,6

EC 203-726-8

CAS 109-99-9

REACH Reg. 01-2119444314-46

Flam. Liq. 2 H225, Carc. 2 H351, Acute Tox. 4 H302, Eye Irrit. 2 H319, STOT SE 3 H335, STOT SE 3 H336, EUH019

Eye Irrit. 2 H319: ≥ 25%, STOT SE 3 H335: ≥ 25%

LD50 Oral: 1650 mg/kg

N-HEXANE

INDEX 0,43 ≤ x < 0,48

EC 925-292-5

CAS

REACH Reg. 01-2119474209-33

Flam. Liq. 2 H225, Repr. 2 H361f, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411

STOT RE 2 H373: ≥ 5%

HEPTANE

INDEX 601-008-00-2 0,25 ≤ x < 0,29

EC 205-563-8

CAS 142-82-5

REACH Reg. 01-2119457603-38

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: C

CYCLOHEXANE

INDEX 601-017-00-1 0,19 ≤ x < 0,24

EC 203-806-2

CAS 110-82-7

REACH Reg. 01-2119463273-41

Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

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

SECTION 4. First aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice.

Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

IF exposed or concerned: call a POISON CENTER / doctor / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

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.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

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SECTION 7. Handling and storage ... / >>			
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.			
Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.			
7.3. Specific end use(s)			
Information not available			
SECTION 8. Exposure controls/personal protection			
8.1. Control parameters			
Regulatory references:			
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)	
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci	
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58	
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021	
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»	
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)	
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81	
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006	
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)	
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)	
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; 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 98/24/EC; Directive 91/322/EEC.	
	TLV-ACGIH	ACGIH 2023	
	RCP TLV	ACGIH TLVs and BEIs – Appendix H	

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SECTION 8. Exposure controls/personal protection ... / >>

HEPTANE

Threshold Limit Value						Remarks / Observations		
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	1600						
TLV	CZE	1000	240	2000	480			
AGW	DEU	2100	500	2100	500			
MAK	DEU	2100	500	2100	500			
VLEP	FRA	1668	400	2085	500			
TLV	GRC	2000	500	2000	500			
GVI/KGVI	HRV	2085	500			SKIN		
VLEP	ITA	2085	500					
TLV	ROU	2085	500					
MV	SVN	2085	500	2085	500			
WEL	GBR	2085	500					
OEL	EU	2085	500					
TLV-ACGIH		1639	400	2049	500			
Predicted no-effect concentration - PNEC								
Normal value in fresh water						NPI		
Normal value in marine water						NPI		
Normal value for fresh water sediment						NPI		
Normal value for marine water sediment						NPI		
Normal value for water, intermittent release						NPI		
Normal value for marine water, intermittent release						NPI		
Normal value for fresh water, intermittent release						NPI		
Normal value of STP microorganisms						NPI		
Normal value for the food chain (secondary poisoning)						NPI		
Normal value for the terrestrial compartment						NPI		
Normal value for the atmosphere						NEA		
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				149 mg/kg/d				
Inhalation				447 mg/m3				

CYCLOHEXANE

Threshold Limit Value						Remarks / Observations
Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	700	200			
TLV	CZE	700	200,2	2000	572	
AGW	DEU	700	200	2800	800	
MAK	DEU	700	200	2800	800	
VLEP	FRA	700	200	1300	375	11
TLV	GRC	700	200			
GVI/KGVI	HRV	700	200			SKIN
VLEP	ITA	350	100			
TLV	ROU	700	200			
MV	SVN	700	200	2800	800	
WEL	GBR	350	100	1050	300	
OEL	EU	700	200			
TLV-ACGIH		344	100			

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SECTION 8. Exposure controls/personal protection ... / >>**N-HEXANE**

Threshold Limit Value						Remarks / Observations
Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	72	20			SKIN
TLV	CZE	70	19,53	200	55,8	
AGW	DEU	180	50	1440	400	
MAK	DEU	180	50	1440	400	
VLEP	FRA	72	20			
TLV	GRC	72	20			SKIN
GVI/KGVI	HRV	72	20			
VLEP	ITA	72	20			
TLV	ROU	72	20			
MV	SVN	72	20	576	160	
WEL	GBR	72	20			
OEL	EU	72	20			
TLV-ACGIH		176	50			SKIN

DICHLOROMETHANE

Threshold Limit Value						Remarks / Observations
Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	353	100	706	200	SKIN
TLV	CZE	200	56,6	500	141,5	SKIN
AGW	DEU	180	50	360	100	SKIN
MAK	DEU	180	50	360	100	SKIN
VLEP	FRA	178	50	356	100	SKIN
TLV	GRC	353	100	706	200	SKIN
GVI/KGVI	HRV	353	100	706	200	SKIN
VLEP	ITA	175	50	353	100	SKIN
TLV	ROU	353	100	706	200	SKIN
MV	SVN	353	100	706	200	SKIN
WEL	GBR	353	100	706	200	SKIN
OEL	EU	353	100	706	200	SKIN
TLV-ACGIH		174	50			

METHANOL

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	260	200			
TLV	CZE	250	187,75	1000	751	SKIN
AGW	DEU	130	100	260	200	SKIN
MAK	DEU	130	100	260	200	SKIN
VLEP	FRA	260	200	1300	1000	SKIN 11
TLV	GRC	260	200	325	250	
GVI/KGVI	HRV	260	200			SKIN
VLEP	ITA	260	200			SKIN
TLV	ROU	260	200			SKIN
MV	SVN	260	200	1040	800	SKIN
WEL	GBR	266	200	333	250	SKIN
OEL	EU	260	200			
TLV-ACGIH		262	200	328	250	SKIN

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SECTION 8. Exposure controls/personal protection ... / >>

TETRAHYDROFURAN

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	150	50	300	100	SKIN
TLV	CZE	150	50,1	300	100,2	SKIN
AGW	DEU	150	50	300	100	SKIN
MAK	DEU	150	50	300	100	SKIN
VLEP	FRA	150	50	300	100	SKIN
TLV	GRC	590	200	735	250	
GVI/KGVI	HRV	150	50	300	100	SKIN
VLEP	ITA	150	50	300	100	SKIN
TLV	ROU	150	50	300	100	SKIN
MV	SVN	150	50	300	100	SKIN
WEL	GBR	150	50	300	100	SKIN
OEL	EU	150	50	300	100	SKIN
TLV-ACGIH		147	50	295	100	SKIN

PROPAN-2-OL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	980		1225		
TLV	CZE	500	200	1000	400	
AGW	DEU	500	200	1000	400	
MAK	DEU	500	200	1000	400	
VLEP	FRA			980	400	
TLV	GRC	980	400	1225	500	
GVI/KGVI	HRV	999	400	1250	500	
TLV	ROU	200	81	500	203	
MV	SVN	500	200	1000	400	
WEL	GBR	999	400	1250	500	
TLV-ACGIH		492	200	983	400	

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ETHYL ACETATE						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	734	200	1468	400	
TLV	CZE	700	191,1	900	245,7	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
VLEP	FRA	734	200	1468	400	
TLV	GRC	734	200	1468	400	
GVI/KGVI	HRV	734	200	1468	400	
VLEP	ITA	734	200	1468	400	
TLV	ROU	734	200	1468	400	
MV	SVN	734	200	1468	400	
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH		1441	400			

Toulene						
Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	200		500		SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
GVI/KGVI	HRV	192	50	384	100	SKIN
VLEP	ITA	192	50			SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			
TLV-ACGIH		75,4			20	SKIN

Predicted no-effect concentration - PNEC					
Normal value in fresh water				0,68	mg/l
Normal value in marine water				0,68	mg/l
Normal value for fresh water sediment				16,39	mg/kg
Normal value for marine water sediment				16,39	mg/kg
Normal value for water, intermittent release				0,68	mg/l
Normal value of STP microorganisms				13,61	mg/l
Normal value for the terrestrial compartment				2,89	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				8,13 mg/kg/d				
Inhalation	226 mg/m3	226 mg/m3		56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin				226 mg/kg/d				384 mg/kg/d

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ETHYL ALCOHOL

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV	BGR	1000				
TLV	CZE	1000				
AGW	DEU	380				
MAK	DEU	380				
VLEP	FRA	1900		9500	1000	
TLV	GRC	1900				
GVI/KGVI	HRV	1900				
TLV	ROU	1900		9500		
MV	SVN	960	500	1920		
WEL	GBR	1920	1000			
TLV-ACGIH			1000	1884		
RCP TLV				1884	1000	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,96	mg/l
Normal value in marine water	0,79	mg/l
Normal value for fresh water sediment	3,6	mg/kg
Normal value for marine water sediment	2,9	mg/kg
Normal value of STP microorganisms	580	mg/l
Normal value for the food chain (secondary poisoning)	720	mg/kg
Normal value for the terrestrial compartment	0,63	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								950 mg/kg
Skin								343 mg/kg/d

Legend:

(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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

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. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

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

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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**

Properties	Value	Information
Appearance	liquid	
Colour	characteristic	
Odour	characteristic of solvent	
Melting point / freezing point	not available	
Initial boiling point	> 65 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	< 23 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,845	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	100,00 % - 845,00 g/litre
VOC (volatile carbon)	0

SECTION 10. Stability and reactivity**10.1. Reactivity**

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

DICHLOROMETHANE

Decomposes at temperatures above 120°C/248°F.

With water and alkalis it may form hydrochloric acid and attack aluminium, copper and alloys.

TETRAHYDROFURAN

May form peroxides with: air.

Stabilize the product with a reducing agent (ferrous sulphate, hydroquinone).

ACETONE

Decomposes under the effect of heat.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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The vapours may also form explosive mixtures with the air.

CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

DICHLOROMETHANE

Risk of explosion on contact with: alkaline metals, nitric acid, aluminium powder, ethanediamine, aluminium chloride, perchloric acid, dinitrogen pentoxide, sodium nitride, n-nitroso n-methylurea, potassium hydroxide. May react dangerously with: alkaline earth metals, metal powders, sodium amides, potassium tert-butyrate. May form explosive mixtures with: air.

TETRAHYDROFURAN

Reacts violently developing heat on contact with: metal halogenates, thionile chloride, bromine. Develops flammable gas on contact with: oxidising substances. Develops hydrogen on contact with: sodium aluminium hydride, calcium hydride, lithium aluminium hydride. Risk of explosion on contact with: 2-aminophenol, potassium peroxide, alkaline hydroxides. Forms explosive mixtures with: air.

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, peroxy monosulphuric acid, phosphoryl oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

DICHLOROMETHANE

Avoid exposure to: naked flames, overheated surfaces.

TETRAHYDROFURAN

Avoid exposure to: sources of heat, naked flames.

ACETONE

Avoid exposure to: sources of heat, naked flames.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

CYCLOHEXANE

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

DICHLOROMETHANE

Incompatible with: aluminium, magnesium, sodium, potassium, nitric acid, caustic substances, strong oxidants.

ACETONE

Incompatible with: acids, oxidising substances.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

DICHLOROMETHANE

May develop: dioxins, phosgenes, hydrochloric acid.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Methylformiato

Irritation

Evaluation of the irritating effect:

Not irritating for the skin. Irritating for the eyes.

Experimental/calculated data:

Corrosion/irritation of the rabbit skin: not irritating. (draiize test)

Serious eye damage/eye rabbit eye irritation: irritating. (draiize test)

Avocative of the respiratory tract/of the skin

Evaluation of the sensitizing effect:

SECTION 11. Toxicological information ... / >>

Animal tests have not shown sensitizing action. The product has not been tested. The Indications are derived from substances/composition or similar structure products.

Experimental/calculated data:

Buehler Test Porcellino d'Ondia: non -sensitizing (Oecd - Guidelines 406)

The product has not been tested. The indications are derived from composition substances/products or Similar structure.

Guinea Pig Maximation Test Porcellino d'India: non -sensitizing

The product has not been tested. The indications are derived from composition substances/products or Similar structure.

Mutagenicity on germ cells

Mutagenicity evaluation: no mutagenic effect has been found in various experiments on bacteria and mammals. The product

It has not been completely tested. The statements were derived in part from products of structure or similar composition

Carcinogenicity

Carcinogenicity evaluation:

No data available.

reproductive toxicity

Evaluation of toxicity for reproduction:

The results of animal studies do not highlight effects of damage to fertility. The product is not been tested. The indications are derived from substances/composition or similar structure products.

Toxic for development.

Evaluation of teratogenicity:

Animal tests have not highlighted fetal damage. The product has not been tested. The

Indications are derived from substances/composition or similar structure products.

Specific toxicity for target organs (single exposure)

Single Stot evaluation:

It can irritate the respiratory tract. A single exposure can have relevant toxic effects on organs.

Target organ: central nervous system; optical nerve

Repeated dose toxicity and specific toxicity for target organs (repeated exposure)

Assessment of toxicity following repeated administration:

After repeated administrations, the main effect is local irritation. The substance can damage

In case of repeated inhalation, the primary respiratory tract, as shown by animal tests.

Danger in case of aspiration

No aspiration risk is expected.

Other indications on toxicity

The product/substance, after taking the body, is quickly degraded with consequent formation of methanol. The toxicity of the methanol.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

CYCLOHEXANE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

N-HEXANE

WORKERS: inhalation; contact with the skin.

POPULATION: inhalation of ambient air.

DICHLOROMETHANE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

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

CYCLOHEXANE

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

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N-HEXANE

The chronic toxic effect concerns the central and peripheral nervous system; this is also affected by an acute effect. The irritating action affects the respiratory tract, conjunctiva and skin.

DICHLOROMETHANE

The acute toxic effect on humans causes cognitive disorders, if inhaled in large doses. At 200-500 ppm, nausea, vomiting, dizziness, paresthesia, fatigue and headache appear. Skin contact causes pain, which soon disappears without leaving any burns. Prolonged contact may cause chemical burns. Contact with the eyes causes superficial lesions of the cornea. Cases of dermatosis may ensue from repeated contact.

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

Interactive effects

CYCLOHEXANE

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

N-HEXANE

Simultaneous exposure to toluene or methyl ethyl ketone inhibits the metabolism of the substance and the formation of 2,5-hexanedione (INRS, 2008).

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

CYCLOHEXANE

LD50 (Dermal):	> 2000 mg/kg Rabbit
LD50 (Oral):	> 5000 mg/kg Rat
LC50 (Inhalation vapours):	13,9 mg/l/4h Rat

N-HEXANE

LD50 (Dermal):	3000 mg/kg Rabbit
LD50 (Oral):	5000 mg/kg Rat

DICHLOROMETHANE

LD50 (Dermal):	> 2000 mg/kg Rat
LD50 (Oral):	1600 mg/kg Rat
LC50 (Inhalation vapours):	86 mg/l/4h Rat

METHANOL

ATE (Dermal):	300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Oral):	100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LC50 (Inhalation vapours):	> 87,6 mg/l/4h Rat
ATE (Inhalation vapours):	3 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

TETRAHYDROFURAN

LD50 (Oral):	1650 mg/kg
LC50 (Inhalation vapours):	60 mg/l

PROPAN-2-OL

LD50 (Dermal):	12800 mg/kg Rat
LD50 (Oral):	4710 mg/kg Rat
LC50 (Inhalation vapours):	72,6 mg/l/4h Rat

ACETONE

LD50 (Dermal):	7400 mg/kg rabbit
LD50 (Oral):	5800 mg/kg 24 h rat
LC50 (Inhalation vapours):	76 mg/l/4h rat

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METHYL ACETATE

LD50 (Dermal): > 2000 mg/kg ratto
LD50 (Oral): > 6482 mg/kg ratto
LC50 (Inhalation vapours): > 49,2 mg/l 4 h ratto

Toulene

LD50 (Dermal): 12267 mg/kg rabbit
LD50 (Oral): 5000 mg/kg 24h rat
LC50 (Inhalation vapours): 25,7 mg/l/4h rat

Methylformiato

ATE (Dermal): 300 mg/kg estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral): 1500 mg/kg RATTO (TEST BASF)
ATE (Oral): 100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

ETHYL ALCOHOL

LD50 (Dermal): 15800 mg/kg rat
LD50 (Oral): 10470 mg/kg rat
LC50 (Inhalation vapours): 30000 mg/l/4h (inalatoria ratto)

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

N-HEXANE

The US Environmental Protection Agency (EPA) affirms that "the data was inadequate for an assessment of the carcinogenic potential"- (US EPA file on-line 2015).

DICHLOROMETHANE

Classified in Group 2A (probable human carcinogen) by the International Agency for Research on Cancer (IARC).
Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 2014).

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

May cause damage to organs
May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Toxic for aspiration

11.2. Information on other hazards

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Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.			
SECTION 12. Ecological information			
This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.			
12.1. Toxicity			
HEPTANE			
LC50 - for Fish		375 mg/l/96h	Oreochromis mossambicus
EC50 - for Crustacea		82,5 mg/l/48h	Daphnia magna
EC50 - for Algae / Aquatic Plants		1,5 mg/l/72h	Algae
CYCLOHEXANE			
LC50 - for Fish		4,53 mg/l/96h	Pimephales promelas
EC50 - for Crustacea		3,89 mg/l/48h	Daphnia magna
EC50 - for Algae / Aquatic Plants		32,7 mg/l/72h	Chlorella vulgaris
Toulene			
LC50 - for Fish		5,5 mg/l/96h	Oncorhynchus kisutch
EC50 - for Crustacea		3,78 mg/l/48h	Ceriodaphnia dubia
EC50 - for Algae / Aquatic Plants		134 mg/l/72h	Chlamydomonas angulosa
Chronic NOEC for Fish		1,39 mg/l	40 giorni - Oncorhynchus kisutch
Chronic NOEC for Crustacea		0,74 mg/l	7 giorni - Ceriodaphnia dubia
Chronic NOEC for Algae / Aquatic Plants		10 mg/l	72 ore - Skeletonema costatum
Methylformiato			
LC50 - for Fish		120 mg/l/96h	leucisco dorato
EC50 - for Crustacea		> 500 mg/l/48h	daphnia magna
12.2. Persistence and degradability			
Methylformiato			
Evaluation of biodegradability and elimination (H2O):			
Easily biodegradable (according to Oecd criteria).			
Considerations on disposal:			
90 - 100 % CO2 formation of the theoretical value (28 D) (ISO 14593) (aerobic, active mud, domestic, not adapted)			
Evaluation of stability in water:			
In contact with water, the substance slowly hydrolyses.			
Stability data in water (hydrolysis):			
T1/2 28.6 h, (Oecd 111 guideline, h 7)			
T1/2 259 h, (OECD 111 guideline, Ph 4)			
T1/2 0.7 h, (OECD 111 guideline, Ph 9)			
HEPTANE			
Solubility in water		0,1 - 100 mg/l	
Rapidly degradable			
CYCLOHEXANE			
Solubility in water		0,1 - 100 mg/l	
Rapidly degradable			
N-HEXANE			
Solubility in water		0,1 - 100 mg/l	
Rapidly degradable			
DICHLOROMETHANE			
Solubility in water		13200 mg/l	
Rapidly degradable			
METHANOL			
Solubility in water		1000 - 10000 mg/l	
Rapidly degradable			

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TETRAHYDROFURAN	
Solubility in water	1000 - 10000 mg/l
NOT rapidly degradable	
PROPAN-2-OL	
Rapidly degradable	
ACETONE	
Rapidly degradable	
METHYL ACETATE	
Solubility in water	243500 mg/l
Rapidly degradable	
ETHYL ACETATE	
Solubility in water	> 10000 mg/l
Rapidly degradable	
Toulene	
Rapidly degradable	Rapidamente Biodegradabile

12.3. Bioaccumulative potential

HEPTANE	
Partition coefficient: n-octanol/water	4,5
BCF	552
CYCLOHEXANE	
Partition coefficient: n-octanol/water	3,44
N-HEXANE	
Partition coefficient: n-octanol/water	4
BCF	501,187
DICHLOROMETHANE	
Partition coefficient: n-octanol/water	1,25
BCF	2
METHANOL	
Partition coefficient: n-octanol/water	-0,77
BCF	0,2
TETRAHYDROFURAN	
Partition coefficient: n-octanol/water	0,45
PROPAN-2-OL	
Partition coefficient: n-octanol/water	0,05
ACETONE	
Partition coefficient: n-octanol/water	-0,23
BCF	3
METHYL ACETATE	
Partition coefficient: n-octanol/water	0,18
ETHYL ACETATE	
Partition coefficient: n-octanol/water	0,68
BCF	30
Toulene	
BCF	90

12.4. Mobility in soil

HEPTANE	
Partition coefficient: soil/water	2,38

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CYCLOHEXANE	
Partition coefficient: soil/water	2,89
N-HEXANE	
Partition coefficient: soil/water	3,34
TETRAHYDROFURAN	
Partition coefficient: soil/water	1,26
METHYL ACETATE	
Partition coefficient: soil/water	0,18

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 \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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 or ID number

ADR / RID, IMDG, IATA: UN 1263

14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL
IMDG: PAINT or PAINT RELATED MATERIAL
IATA: PAINT or PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: II

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14.5. Environmental hazards

ADR / RID: NO
IMDG: not marine pollutant
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special provision: 163, 367, 640(C-D), 650		
IMDG:	EMS: F-E, S-E	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3, A72, A192	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c

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

<u>Product</u>		
Point	3 - 40	
<u>Contained substance</u>		
Point	75	
Point	69	METHANOL
		REACH Reg.: 01-2119433307-44
Point	59	DICHLOROMETHANE
		REACH Reg.: 01-2119480404-41
Point	57	CYCLOHEXANE
		REACH Reg.: 01-2119463273-41
Point	48	Toulene
		REACH Reg.: 01-2119471310-51

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Regulated explosives precursor

The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.

All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

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

ETHYL ACETATE

Toulene

SECTION 16. Other information

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

Flam. Liq. 1	Flammable liquid, category 1
Flam. Liq. 2	Flammable liquid, category 2
Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
STOT SE 2	Specific target organ toxicity - single exposure, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
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
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic

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- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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- 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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

MULTICHIMICA SPA

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