

# **ECC P250**

Revision nr 7

Dated 22/10/2020

Printed on 23/10/2020

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Replaced revision:6 (Dated: 19/08/2019)

ΕN

# 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

Code: U05190 **ECC P250** Product name

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Cleaner for electrical contacts. Uses advised against: Different uses than those intended.

1.3. Details of the supplier of the safety data sheet

CENTRO DISTRIBUZIONE UTENSILI SCPA

Full address Via delle Gerole, 19 **District and Country** 20867 CAPONAGO (MB)

**ITALY** 

tel. +39 02 95746081 fax. + 39 02 95745182

e-mail address of the competent person

responsible for the Safety Data Sheet info@cdu.net

Product distribution by: CENTRO DISTRIBUZIONE UTENSILI SCPA

1.4. Emergency telephone number

CENTRO DISTRIBUZIONE UTENSILI SCPA For urgent inquiries refer to

+39 02 95746081 (Technical support - Office hour 8.30-12.30 - 13.30-17.30)

# **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:

lazara classification and indication.		
Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
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.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic 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:









DANGER Signal words:

Hazard statements:

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**H225** Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.H315 Causes skin irritation.

**H336** May cause drowsiness or dizziness.

**H410** Very toxic 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 call a POISON CENTER / doctor.
P370+P378 In case of fire: use carbon dioxide, foam, chemical powder to extinguish.

**P273** Avoid release to the environment.

Contains: CYCLOHEXANE;

ETHYL ACETATE

Ingredients according to Regulation (EC) No. 648/2004
30% and more: aliphatic hydrocarbons.

#### 2.3. Other hazards

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

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

## 3.2. Mixtures

Contains:

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

**CYCLOHEXANE** 

CAS 110-82-7 69 ≤ x ≤ 89 Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,

EC 203-806-2 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

INDEX 601-017-00-1

Reg. no. 01-2119463273-41

**ETHYL ACETATE** 

CAS 141-78-6 5 ≤ x ≤ 11 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4

INDEX 607-022-00-5

Reg. no. 01-2119475103-46

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

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHĂLATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

CYCLOHEXANE

In case of skin contact: causes skin irritation.

In case of inhalation: may cause central nervous system depression. It can cause drowsiness or dizziness.

In case of ingestion: may cause central nervous system depression. It can be fatal if swallowed and if it enters the respiratory tract. Irritating to mouth, throat and stomach.

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#### ETHYL ACETATE

In case of eye contact: slight irritation.

In case of prolonged contact with the skin: dry skin, cracking.

In case of inhalation: exposure to high concentrations can irritate the respiratory tract. It can cause irritation of the nasal mucosa, central nervous system depression, dizziness, headache, narcosis and loss of consciousness.

In case of ingestion: causes nausea, vomiting, risk of chemical pneumonia, central nervous system depression.

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

Information for the doctor: symptomatically treatment.

# **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, 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

Excess pressure may form in containers exposed to fire at a risk of explosion. 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. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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

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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling.

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Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 3

# 7.3. Specific end use(s)

Cleaner for electrical contacts.

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

## 8.1. Control parameters

	ntrol parameters	
Regulatory	References:	
ĀUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2018, Fassung vom 17.10.2018
BEL	Belgique	AR du 11/3/2002. La liste est mise à jour pour 2017
BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА
	•	ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail en Suisse: valeurs VME/VLE. Version Juin
OHL	Guisse / Gonweiz	2019 (SUVA)
CYP	Κύπρος	K.Δ.Π. 268/2001; K.Δ.Π. 55/2004; K.Δ.Π. 295/2007; K.Δ.Π. 70/2012; K.Δ.Π. 16/2019
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007
OZL	Осэка Перавика	Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
DLU	Deutschland	Kurzzeitwerte
DNIZ	Danmark	
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019
		(INSST)
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse
		nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust.
	_	17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2018. Koncentrationer som befunnits skadliga. SOCIAL- OCH
		HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 10/2018
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου
		2018
HUN	Magyarország	A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról
		szóló 25/2000. (IX. 30.) EüM–SZCSM együ, TTes rendelet módosításáról.
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim
		vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
IRL	Éire	2018 Code of Practice for the Chemical Agents Regulations Safety Authority
LUX	Luxembourg	Règlement grand-ducal du 20 juillet 2018 modifiant le règlement grand-ducal du 14 novembre
	_	2016 concernant la protection de la sécurité et de la santé des salariés contre les risques liés
		à des agents chimiques sur le lieu de travail
LTU	Lietuva	LIETUVOS HIGIENOS NORMA HN 23:2011 "CHEMINIŲ MEDŽIAGŲ PROFESINIO
		POVEIKIO RIBINIAI DYDŽIAI. MATAVIMO IR POVEIKIO VERTINIMO BENDRIEJI
		REIKALAVIMAI. Nr. V-695/A1-272, 2018-06-12, paskelbta TAR 2018-06-15, i. k. 2018-09988
LVA	Latvija	Kīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2018
MLT	Malta	LEGAL NOTICE 227 of 2003, as amended by Legal Notices 353 of 2007, 53 of 2012, 198 of
		2015 and 57 of 2018
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005
	3 -	nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018,
	. 10 00	2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de
	i ortagai	protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição
		a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de
		2018
POL	Polska	ROZPORZADZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12
I OL	i Olona	czerwca 2018 r
		6261W64 2010 I



Sverige

Slovensko

Slovenija

Türkiye

OEL EU

United Kingdom

**SWE** 

SVK

SVN

TUR

GBR

EU

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ROU România HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006

privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea

protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici

Hygieniska gränsvärden, AFS 2018:1

Nariadenie vlády č. 33/2018 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred

rizikami súvisiacimi s expozíciou chemickým faktorom pri práci v znení neskorších predpisov Uradni list Republike Slovenije 20.12.2019 - Uradnem listu RS št. 78/19 -PRAVILNIK o

varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu

23.06.2017 tarihli, 30105 sayılı, KKDİK Ek II Yönetmelik hükümlerine uygun düzenlenmiştir

EH40/2005 Workplace exposure limits (Third edition, published 2018)

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 2019

CYCLOHEXANE							
Threshold Limit Value	ue Country	TWA/8h		STEL/15min		Remarks /	
		mg/m3	ppm	mg/m3	ppm	Observations	
MAK	AUS	700	200	2800	800		
TRK	AUS	700					
			200	2800	800		
VLEP	BEL	350	100				
TLV	BGR	700	200				
MAK	CHE	700	200	2800	800		
VME/VLE	CHE	700	200	2800	800		
TLV	CZE	700	200,2	2000	572		
AGW	DEU	700	200	2800	800		
MAK	DEU	700	200	2800	800		
TLV	DNK	172	50	344	100		
VLA	ESP	700	200				
TLV	EST	700	200				
VLEP	FRA	700	200				
HTP	FIN	350	100	875	250		
TLV	GRC	700	200				
AK	HUN	700					
GVI/KGVI	HRV	700	200			SKIN	
VLEP	ITA	350	100				
OELV	IRL	700	200				
VL	LUX	700	200				
RD	LTU	700	200				
RV	LVA	80	23				
TLV	MLT	700	200				
TLV	NOR	525	150				
TGG	NLD	700		1400			
VLE	PRT	700	200				
NDS/NDSCh	POL	300		1000			
TLV	ROU	700	200				



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Inhalation Skin	412 mg/m3	412 mg/m3	206 mg/m3	206 mg/m3 1186 mg/kg	1400 mg/m3	1400 mg/m3	700 mg/m3	700 mg/m3 2016 mg/kg
Route of exposure Oral	Acute local	Acute systemic	Chronic local	Chronic systemic 59,4 mg/kg	Acute local	Acute systemic	Chronic local	Chronic systemic
Health - Derived no-ef	Effects on cons	sumers			Effects on wor			
Normal value for the terres	•			3,38	mg/kg			
Normal value of STP micro		3,24	mg/l					
Normal value for water, int	0,207	mg/l						
Normal value for marine water sediment					mg	/kg		
Normal value for fresh water sediment					mg/kg			
Normal value in marine wa	0,207	mg/l						
Normal value in fresh wate				0,207	mg	/I		
TLV-ACGIH  Predicted no-effect concer	stration DNEC		100					
OEL	EU	700	200					
WEL	GBR	350	100	1050	300			
ESD	TUR	700	200					
MV	SVN	700	200	2800	800			
NPEL	SVK	700	200					
NGV/KGV	SWE	700	200					

ETHYL ACETATE							
Threshold Limit Va Type	Country	TWA/8h STEL/15min			Remarks /		
		mg/m3	nnm	mg/m3	nnm	Observations	
			ppm		ppm		
MAK	AUS	734	200	1468	400		
TRK	AUS	734	200	1460	400		
VLEP	BEL	734	200	1468	400		
TLV	BGR	734	200	1468	400		
MAK	CHE	730	200	1470	400		
VME/VLE	CHE	730	200	1470	400		
TLV	CYP	734	200	1468	400		
TLV	CZE	700	191,1	900	245,7		
AGW	DEU	730	200	1460	400		
MAK	DEU	750	200	1500	400		
TLV	DNK	540	150	1080	300		
VLA	ESP	734	200	1460	400		
TLV	EST	500	150	1100	300		
VLEP	FRA	734	200	1468	400		
HTP	FIN	730	200	1470	400		
TLV	GRC	734	200	1468	400		
AK	HUN	1400		1400			



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GVI/KGVI	HRV	1400		1400				
OELV	IRL	734	200	1468	400			
VL	LUX	734	200	1468	400			
RD	LTU	500	150	1100 (C)	300 (C)			
₹V	LVA	200	54	1468	400			
TLV	MLT	734	200	1468	400			
TLV	NOR	734	200					
TGG	NLD	734		1468				
VLE	PRT	734	200	1468	400			
NDS/NDSCh	POL	734		1468				
TLV	ROU	400	111	500	139			
NGV/KGV	SWE	550	150	1100	300			
NPEL	SVK	734	200	1468	400			
MV	SVN	734	200	1468	400			
WEL	GBR	734	200	1468	400			
OEL	EU	734	200	1468	400			
TLV-ACGIH			400					
Predicted no-effect concentra	ation - PNEC							
Normal value in fresh water				0,24	mg	/I		
Normal value in marine wate	er			0,024	mg	/I		
Normal value for fresh water	sediment			1,15	mg	/kg/d		
Normal value for marine water	er sediment			0,115	mg/kg/d			
Normal value for water, inter	mittent release			1,65	mg/l			
Normal value of STP microo	rganisms			650	mg/l			
Normal value for the food cha	ain (secondary poisor	ning)		200	mg/kg			
Normal value for the terrestrial compartment				0,148	mg/kg/d			
Health - Derived no-effe	ect level - DNEL / I Effects on con				Effects on wor	kers		
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m
Skin				37 mg/kg bw/d				63 mg/kg bw/d

(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.

# 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.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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.

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#### 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 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, 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). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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.

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.

#### ENVIRÓNMENTAL EXPOSURE CONTRÓLS

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 clear liquid Colour colourless Odour solvent Odour threshold Not available Not applicable pН Melting point / freezing point Not available Initial boiling point > 77 °C Not available Boiling range Flash point > -18 °C **Evaporation Rate** Not available Flammability of solids and gases Not applicable Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available 92,98 mmHg Vapour pressure Vapour density Not available

Relative density 0,78 - 0,79 Kg/I (20°C)

Solubility in water: insoluble; in aceton: soluble

Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity Not available
Explosive properties Not available
Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 100,00 % - 785,00 g/litre
VOC (volatile carbon): 82,13 % - 644,75 g/litre

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# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

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

#### ETHYL ACETATE

It slowly decomposes to acetic acid and ethanol by the action of light, air and water.

#### 10.2. Chemical stability

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

#### ETHYL ACETATE

Avoid exposure to: light, moisture, air.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

#### CYCLOHEXANE

May react with: oxidising substances.

ETHYL ACETATE

May react violently with: strong oxidising agents, acids.

#### 10.4. Conditions to avoid

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

#### CYCLOHEXANE

Avoid exposure to: naked flames, sparks, sources of ignition, electrostatic charges.

ETHYL ACETATE

Avoid exposure to: heat, naked flames, sparks, sources of ignition, electrostatic charges.

# 10.5. Incompatible materials

CYCLOHEXANE

Incompatible with: oxidising agents.

ETHYL ACETATE

Incompatible with: oxidising agents, strong acids, strong bases, peroxides.

#### 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.

# CYCLOHEXANE

May develop: carbon oxides.

ETHYL ACETATE

In decomposition develops: carbon oxides, vapors of acetic acid, ethanol.

# **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

CYCLOHEXANE

# TKT CHEM

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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.

#### 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.

## Interactive effects

CYCLOHEXANE

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

**ACUTE TOXICITY** 

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

CYCLOHEXANE

 LD50 (Oral)
 > 5000 mg/kg Rat

 LD50 (Dermal)
 > 2000 mg/kg Rabbit

 LC50 (Inhalation)
 > 32880 mg/m3/4h Rat

ETHYL ACETATE

 LD50 (Oral)
 4934 mg/kg bw Rabbit (OECD 401)

 LD50 (Dermal)
 > 20000 mg/kg bw Male rabbit

 LC50 (Inhalation)
 > 22,5 mg/l/6h Rat

## 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

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

Toxic for aspiration.

# **SECTION 12. Ecological information**

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

# 12.1. Toxicity

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**CYCLOHEXANE** 

LC50 - for Fish 4,53 mg/l/96h Pimephales promelas (OECD 203)

EC50 - for Crustacea 0,9 mg/l/48h Daphnia magna (OECD 202)
EC50 - for Algae / Aquatic Plants 3,4 mg/l/72h Selenastrum capricornutum

ETHYL ACETATE

LC50 - for Fish230 mg/l/96h Pimephales promelasEC50 - for Crustacea165 mg/l/48h Daphnia magnaChronic NOEC for Crustacea2,4 mg/l 21d - Daphnia magna

## 12.2. Persistence and degradability

CYCLOHEXANE

Solubility in water Insoluble

Rapidly degradable

**ETHYL ACETATE** 

Solubility in water > 10000 mg/l
Rapidly degradable 69% - 20d in water

#### 12.3. Bioaccumulative potential

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44 Log Kow

**ETHYL ACETATE** 

Partition coefficient: n-octanol/water 0,68 Log Kow 25° C BCF 30 - 3d - Leuciscus idus

#### 12.4. Mobility in soil

Information not available.

# 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 ≥ 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.

# TEHEM

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# **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG, IATA: 1993

## 14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE; ETHYL ACETATE) IMDG: FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE; ETHYL ACETATE) IATA: FLAMMABLE LIQUID, N.O.S. (CYCLOHEXANE; ETHYL ACETATE)

## 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:

## 14.5. Environmental hazards

ADR / RID: **Environmentally Hazardous** 

IMDG: Marine Pollutant

IATA: NO

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

## 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33 Limited Quantities: 1 L Tunnel restriction code: (D/E)

Special Provision: 640C

IMDG: EMS: F-E, <u>S-E</u> Limited Quantities: 1 L

IATA: Cargo: Maximum quantity: 60 L Packaging instructions: 364 Pass.: Maximum quantity: 5 L Packaging instructions: 353

Special Instructions:

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Information not relevant.

# **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EC: P5c-E1.

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

<u>Product</u>

Point 3 - 40

Contained substance

Point 57 CYCLOHEXANE Reg. no.: 01-2119463273-41

#### Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 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.

# Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters.

# 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the mixture.

# **SECTION 16. Other information**

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

Flam. Liq. 2 Flammable liquid, category 2
Asp. Tox. 1 Aspiration hazard, category 1
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

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

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

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

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H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic 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
- 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).

Classification and procedure used to derive it in accordance with Regulation (EC) 1272/2008 (CLP) in relation to mixtures:

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Flam. Liq. 2 H225	Based on experimental data
Asp. Tox. 1 H304	Calculation method
Eye Irrit. 2 H319	Calculation method
Skin Irrit. 2 H315	Calculation method
STOT SE 3 H336	Calculation method
Aquatic Acute 1 H400	Calculation method
Aquatic Chronic 1 H410	Calculation method

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- Regulation (EU) 2015/830 of the European Parliament
   Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
   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 (EÚ) 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)



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- 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.

## 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: 01 / 02 / 08 / 09 / 10 / 11 / 12 / 15.