

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

Product name
UFI :

**PLT 33 METAL: 75 RE, 76 RE, 77 RE, 78 RE, 79-050,
V1Y3-70HY-A006-KW2T**

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

Intended use **Pad printing ink.**

1.3. Details of the supplier of the safety data sheet

Name
Full address
District and Country

**COMEC ITALIA SRL
Piazzale del lavoro 149
21044 Cavarina (VA)
ITALIA**

Tel. +39 0331 219516

Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet
Supplier:

**info@comec-italia.it
Edgardo Baggini**

1.4. Emergency telephone number

For urgent inquiries refer to

**Centro Antiveleni di Milano 02 66101029
(Niguarda Ca Granda - Milano)
Centro Antiveleni di Pavia 0382 24444
(Fondazione Maugeri - Pavia)
Centro Antiveleni di Bergamo 800 883300
(Papa Giovanni XXIII - Bergamo)
Centro Antiveleni di Verona 800 011858
(AOUI - Verona)
Centro Antiveleni di Firenze 055 7947819
(Careggi - Firenze)
Centro Antiveleni di Roma 06 3054343
(Agostino Gemelli - Roma)
Centro Antiveleni di Roma 06 49978000
(Umberto I - Roma)
Centro Antiveleni di Roma 06 68593726
(Ospedale pediatrico Bambino Gesù - Roma)
Centro Antiveleni di Napoli 081 5453333
(Antonio Cardarelli - Napoli)
Centro Antiveleni di Foggia 800 183459
(Azienda ospedaliera universitaria - Foggia)**

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

PLT 33 METAL: 75 RE, 76 RE, 77 RE, 78 RE, 79-050,

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 3	H226	Flammable liquid and vapour.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
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:

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains: Phthalic anhydride with less than 0,05% of maleic anhydride May produce an allergic reaction.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P331	Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.

P310

Immediately call a POISON CENTER or a doctor.

P370+P378

In case of fire: use chemical powder, CO2 or dry send to extinguish.

Contains:

XYLENE
CYCLOHEXANONE
2-ETHOXY-1-METHYLETHYL ACETATE
2-METHOXY-1-METHYLETHYL ACETATE

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
2-ETHOXY-1-METHYLETHYL ACETATE		
INDEX 603-177-00-8	15 ≤ x < 16,5	Flam. Liq. 3 H226, STOT SE 3 H336
EC 259-370-9		
CAS 54839-24-6		
REACH Reg. 01-2119475116-39xxxx		
XYLENE		
INDEX 601-022-00-9	8 ≤ x < 9	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C ATE Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11,58 mg/l/4h
EC 215-535-7		
CAS 1330-20-7		
REACH Reg. 01-2119488216-32-xxxx		
CYCLOHEXANONE		
INDEX 606-010-00-7	7 ≤ x < 8	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335 LD50 Oral: 1890 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
EC 203-631-1		
CAS 108-94-1		
REACH Reg. 01-2119453616-35-xxxx		
2-METHOXY-1-METHYLETHYL ACETATE		

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			Replaced revision:3 (Dated: 23/01/2023)
INDEX 607-195-00-7	5 ≤ x < 6	Flam. Liq. 3 H226, STOT SE 3 H336	
EC 203-603-9			
CAS 108-65-6			
REACH Reg. 01-2119475791-29-xxxx			
BUTYLGLYCOL ACETATE			
INDEX 607-038-00-2	5 ≤ x < 6	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332	
EC 203-933-3		ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l	
CAS 112-07-2			
REACH Reg. 01-2119475112-47xxxx			
AROMATIC HYDROCARBONS, C9			
INDEX -	4 ≤ x < 4,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P	
EC 918-668-5			
CAS -			
REACH Reg. 01-2119455851-35			
ALUMINIUM POWDER (STABILISED)			
INDEX 013-002-00-1	3 ≤ x < 3,5	Flam. Sol. 1 H228, Classification note according to Annex VI to the CLP Regulation: T	
EC 231-072-3			
CAS 7429-90-5			
REACH Reg. 01-2119529243-45			
BUTAN-1-OL			
INDEX 603-004-00-6	2 ≤ x < 2,5	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336	
EC 200-751-6		ATE Oral: 500 mg/kg	
CAS 71-36-3			
REACH Reg. 01-2119484630-38			
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC			
INDEX -	1,5 ≤ x < 2	Asp. Tox. 1 H304, EUH066, Classification note according to Annex VI to the CLP Regulation: P	
EC 918-481-9			
CAS -			
REACH Reg. 01-2119457273-39-xxxx			
ETHYLBENZENE			
INDEX 601-023-00-4	1,5 ≤ x < 2	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412	
EC 202-849-4		LC50 Inhalation vapours: 17,2 mg/l/4h	
CAS 100-41-4			
REACH Reg. 01-2119489370-35-xxxx			
CHLOROBENZENE			
INDEX 602-033-00-1	1 ≤ x < 1,5	Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Irrit. 2 H315, Aquatic Chronic 2 H411	
EC 203-628-5		LC50 Inhalation vapours: 15,5 mg/l/4h	
CAS 108-90-7			
REACH Reg. 01-2119432722-45-xxxx			

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UOP-L Paste

INDEX -	$0,8 \leq x < 0,9$	Substance with a community workplace exposure limit.
EC 930-915-9		
CAS 1318-02-1		
REACH Reg. 01-2119429034-49		

Phthalic anhydride with less than 0,05% of maleic anhydride

INDEX 607-009-00-4	$0,12 \leq x < 0,14$	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, EUH208 ATE Oral: 500 mg/kg
EC 201-607-5		
CAS 85-44-9		
REACH Reg. 01-2119457017-41		

Alkyl (C12-14) dimethylamine

INDEX -	$0 < x < 0,02$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1 LD50 Oral: 1015 mg/kg
EC 283-464-9		
CAS 84649-84-3		
REACH Reg. 01-2119485584-26-0000		

Alkyl (C16-C18) dimethylamine

INDEX -	$0 < x < 0,02$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=1 LD50 Oral: 1000 mg/kg
EC 269-915-2		
CAS 68390-97-6		
REACH Reg. 01-2119970967-16-0000		

Alkyl (C12-16) dimethylamine

INDEX -	$0 < x < 0,02$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=1 LD50 Oral: 1000 mg/kg
EC 270-414-6		
CAS 68439-70-3		
REACH Reg. 01-2119970968-14-0000		

hexadecyldimethylamine

INDEX -	$0 < x < 0,01$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=1 ATE Oral: 500 mg/kg
EC 203-997-2		
CAS 112-69-6		
REACH Reg. 01-2119485394-29-0002		

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.

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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

Immediately call a POISON CENTER or a 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, 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

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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. 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.

2-METHOXY-1-METHYLETHYL ACETATE
Store in an inert atmosphere, sheletered from moisture because it hydrolyses easily.

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

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DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58							
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 2023							
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021							
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről							
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81							
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit							
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos							
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy							
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							
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)							
TUR	Türkiye	Kimyasal Maddelerin Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.							
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							
2-ETHOXY-1-METHYLETHYL ACETATE									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	120	20	240	40	SKIN	14		
MAK	DEU	120	20	240	40	SKIN	Hinweis		
Predicted no-effect concentration - PNEC									
Normal value in fresh water				2		mg/l			
Normal value in marine water				0,8		mg/l			
Normal value for fresh water sediment				8,2		mg/kg			
Normal value for marine water sediment				0,6		mg/kg			
Normal value for water, intermittent release				2		mg/l			
Normal value of STP microorganisms				62,5		mg/kg			
Normal value for the food chain (secondary poisoning)				117		mg/kg			
Normal value for the terrestrial compartment				0,6		mg/kg			
Health - Derived no-effect level - DNEL / DMEL									
		Effects on consumers			Effects on workers				
Route of exposure		Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				VND	13,1 mg/kg				
Inhalation		VND	365 mg/m3	VND	181 mg/m3	VND	608 mg/m3	VND	302 mg/m3
Skin				VND	62 mg/kg			VND	103 mg/kg
Polymer based on vinyl compounds									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
VLEP	ITA	2	1						
Health - Derived no-effect level - DNEL / DMEL									

		Effects on consumers			Effects on workers				
Route of exposure		Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation									1 mg/m3
XYLENE									
Threshold Limit Value									
Type	Country	TWA/8h	STEL/15min			Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	221	50	442	100	SKIN			
TLV	CZE	200	45,4	400	90,8	SKIN			
AGW	DEU	220	50	440	100	SKIN			
MAK	DEU	220	50	440	100	SKIN			
TLV	DNK	109	25			SKIN		E	
VLA	ESP	221	50	442	100	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
AK	HUN	221	50	442	100	SKIN			
VLEP	ITA	221	50	442	100	SKIN			
TGG	NLD	210		442		SKIN			
VLE	PRT	221	50	442	100	SKIN			
NDS/NDSch	POL	100		200		SKIN			
TLV	ROU	221	50	442	100	SKIN			
NGV/KGV	SWE	221	50	442	100	SKIN			
ESD	TUR	221	50	442	100	SKIN			
WEL	GBR	220	50	441	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH			20						
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,327		mg/l			
Normal value in marine water				0,327		mg/l			
Normal value for fresh water sediment				12,46		mg/kg			
Normal value for marine water sediment				12,46		mg/kg			
Normal value for water, intermittent release				0,327		mg/l			
Normal value of STP microorganisms				6,58		mg/l			
Normal value for the terrestrial compartment				2,31		mg/kg			
Health - Derived no-effect level - DNEL / DMEL									
		Effects on consumers			Effects on workers				
Route of exposure		Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				VND	1,6 mg/kg/d				
Inhalation		174 mg/m3	174 mg/m3	VND	14,8 mg/m3	289 mg/m3	289 mg/m3	77 mg/m3	77 mg/m3
Skin				VND	108 mg/kg/d	174 mg/m3	VND	VND	180 mg/kg
CYCLOHEXANONE									
Threshold Limit Value									
Type	Country	TWA/8h	STEL/15min			Remarks / Observations			

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		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	40,8	10	81,6	20	SKIN			
TLV	CZE	40	9,8	80	196	SKIN			
AGW	DEU	80	20	80	20	SKIN			
TLV	DNK	41	10	81,6	20	SKIN E			
VLA	ESP	41	10	82	20	SKIN			
VLEP	FRA	40,8	10	81,6	20				
AK	HUN	40,8	10	81,6	20	SKIN			
VLEP	ITA	40,8	10	81,6	20	SKIN			
TGG	NLD			50		SKIN			
VLE	PRT	40,8	10	81,6	20	SKIN			
NDS/NDSch	POL	40		80		SKIN			
TLV	ROU	40,8	10	81,6	20	SKIN			
NGV/KGV	SWE	41	10	81	20	SKIN			
ESD	TUR	40,8	10	81,6	20	SKIN			
WEL	GBR	41	10	82	20	SKIN			
OEL	EU	40,8	10	81,6	20	SKIN			
TLV-ACGIH		80	20	201	50	SKIN			
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,1	mg/l				
Normal value in marine water				0,01	mg/l				
Normal value for fresh water sediment				0,512	mg/kg				
Normal value for marine water sediment				0,0512	mg/kg				
Normal value for water, intermittent release				0,329	mg/l				
Normal value of STP microorganisms				10	mg/l				
Normal value for the terrestrial compartment				0,0435	mg/kg				
Health - Derived no-effect level - DNEL / DMEL									
		Effects on consumers			Effects on workers				
Route of exposure		Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral					1,5 mg/kg bw/d				
Inhalation				VND	10 mg/m3			VND	40 mg/m3
Skin				VND	1 mg/kg bw/d			VND	4 mg/kg bw/d
2-METHOXY-1-METHYLETHYL ACETATE									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	275	50	550	100	SKIN			
TLV	CZE	270	49,14	550	100,1	SKIN			
AGW	DEU	270	50	270	50				
MAK	DEU	270	50	270	50				
TLV	DNK	275	50	550	100	SKIN E			
VLA	ESP	275	50	550	100	SKIN			
VLEP	FRA	275	50	550	100	SKIN			

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VLEP	ITA	275	50	550	100	SKIN		
TGG	NLD	550						
VLE	PRT	275	50	550	100	SKIN		
NDS/NDSch	POL	260		520		SKIN		
TLV	ROU	275	50	550	100	SKIN		
NGV/KGV	SWE	275	50	550	100	SKIN		
ESD	TUR	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,635	mg/l			
Normal value in marine water				0,0635	mg/l			
Normal value for fresh water sediment				3,29	mg/kg			
Normal value for marine water sediment				0,329	mg/l			
Normal value for water, intermittent release				6,35	mg/l			
Normal value of STP microorganisms				100	mg/l			
Normal value for the terrestrial compartment				0,29	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,67 mg/kg				
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3
Skin			VND	54,8 mg/kg			VND	153,5 mg/kg
BUTYLGLYCOL ACETATE								
Threshold Limit Value								
Type	Country	TWA/8h	STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	133	20	333	50	SKIN		
TLV	CZE	130	19,5	300	45	SKIN		
AGW	DEU	65	10	130	20	SKIN 11		
MAK	DEU	66	10	132	20	SKIN Hinweis		
TLV	DNK	134	20	333	50	SKIN E		
VLA	ESP	133	20	333	50	SKIN		
VLEP	FRA	66,5	10	333	50			
VLEP	ITA	133	20	333	50	SKIN		
TGG	NLD	135		333		SKIN		
VLE	PRT	133	20	333	50	SKIN		
NDS/NDSch	POL	100		300		SKIN		
TLV	ROU	133	20	333	50	SKIN		
NGV/KGV	SWE	70	10	333	50	SKIN		
ESD	TUR	133	20	333	50	SKIN		
WEL	GBR	133	20	332	50	SKIN		
OEL	EU	133	20	333	50	SKIN		

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TLV-ACGIH									
131									
20									
Predicted no-effect concentration - PNEC									
Normal value in fresh water					0,304		mg/l		
Normal value in marine water					0,03		mg/l		
Normal value for fresh water sediment					2,03		mg/l		
Normal value for marine water sediment					0,203		mg/l		
Normal value for water, intermittent release					0,56		mg/l		
Normal value of STP microorganisms					90		mg/l		
Normal value for the food chain (secondary poisoning)					60		mg/kg		
Normal value for the terrestrial compartment					0,415		mg/kg/d		
Health - Derived no-effect level - DNEL / DMEL									
Effects on consumers					Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral	VND	36 mg/kg/d	VND	4,3 mg/kg/d					
Inhalation	200 mg/m3	499 mg/m3	VND	80 mg/m3	333 mg/m3	773 mg/m3	VND	133 mg/m3	
Skin		72 mg/kg bw/d	VND	102 mg/kg/d	102 mg/kg/d	27 mg/kg/d	VND	169 mg/kg/d	
AROMATIC HYDROCARBONS, C9									
Threshold Limit Value									
Type	Country	TWA/8h	STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm				
VLEP	ITA	100	20	1,2,3 trimetilbenzene					
OEL	EU	100	20	1,2,3 trimetilbenzene					
TLV-ACGIH			25	1,2,3 trimetilbenzene					
Health - Derived no-effect level - DNEL / DMEL									
Effects on consumers					Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral			VND	11 mg/kg				11 mg/kg bw/d	
Inhalation			VND	32 mg/m3			VND	150 mg/m3	
Skin			VND	11 mg/kg			VND	25 mg/kg	
ALUMINIUM POWDER (STABILISED)									
Threshold Limit Value									
Type	Country	TWA/8h	STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	2							
MAK	DEU	4	INHAL						
MAK	DEU	1,5	RESP						
TLV	DNK	5							
TLV	DNK	2	RESP						
VLA	ESP	1	RESP						
VLEP	FRA	5							
AK	HUN	1	RESP						
NDS/NDSch	POL	2,5	INHAL						

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NGV/KGV		SWE	5		Som AI, Totaldamm				
NGV/KGV		SWE	2		RESP		Som AI		
WEL		GBR	10		INHAL				
WEL		GBR	4		RESP				
TLV-ACGIH			1	0,9	RESP		AI		
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,0749	mg/l				
Normal value of STP microorganisms				20	mg/l				
Health - Derived no-effect level - DNEL / DMEL									
		Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral				3,95 mg/kg bw/d					
Inhalation							3,72 mg/m3	3,72 mg/m3	
BUTAN-1-OL									
Threshold Limit Value									
Type	Country	TWA/8h	STEL/15min		Remarks / Observations				
		mg/m3	ppm	mg/m3	ppm				
TLV	BGR	100	150						
TLV	CZE	300	97,5	600	195				
AGW	DEU	310	100	310	100				
MAK	DEU	310	100	310	100				
TLV	DNK			150 (C)	50 (C)	SKIN			
VLA	ESP	61	20	154	50				
VLEP	FRA			150	50				
TGG	NLD			45					
NDS/NDSch	POL	50		150	SKIN				
TLV	ROU	100	33	200	66				
NGV/KGV	SWE	45	15	90	30	SKIN			
ESD	TUR	300	100						
WEL	GBR			154	50	SKIN			
TLV-ACGIH		61	20						
Predicted no-effect concentration - PNEC									
Normal value in fresh water				0,082	mg/l				
Normal value in marine water				0,0082	mg/l				
Normal value for fresh water sediment				0,178	mg/kg				
Normal value for marine water sediment				0,0178	mg/kg				
Normal value for water, intermittent release				2,25	mg/l				
Normal value of STP microorganisms				2476	mg/l				
Normal value for the terrestrial compartment				0,015	mg/kg				
Health - Derived no-effect level - DNEL / DMEL									
		Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	

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Oral		VND		3125 mg/kg				
Inhalation		55 mg/m3		VND		310 mg/m3		VND
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
WEL	GBR	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
TLV-ACGIH		1200	184					
Health - Derived no-effect level - DNEL / DMEL								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				300 mg/kg/d				
Inhalation				900 mg/m3				
Skin				300 mg/kg/d				300 mg/kg/d
Modified amorphous silicon								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLEP	ITA	3				INHAL		
VLEP	ITA	10				RESP		
ETHYLBENZENE								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	435		545		SKIN		
TLV	CZE	200	45,4	500	113,5	SKIN		
AGW	DEU	88	20	176	40	SKIN		
MAK	DEU	88	20	176	40	SKIN		
TLV	DNK	217	50	434	100	SKIN E		
VLA	ESP	441	100	884	200	SKIN		
VLEP	FRA	88,4	20	442	100	SKIN		
AK	HUN	442	100	884	200	SKIN		
VLEP	ITA	442	100	884	200	SKIN		
TGG	NLD	215		430		SKIN		
VLE	PRT	442	100	884	200	SKIN		
NDS/NDSch	POL	200		400		SKIN		
TLV	ROU	442	100	884	200	SKIN		
NGV/KGV	SWE	220	50	884	200	SKIN		
ESD	TUR	442	100	884	200	SKIN		

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WEL	GBR	441	100	552	125	SKIN		
OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH		87	20					
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,1	mg/l ECHA 2018			
Normal value in marine water				0,01	mg/l ECHA 2018			
Normal value for fresh water sediment				13,7	mg/kg ECHA 2018			
Normal value for marine water sediment				1,37	mg/kg ECHA 2018			
Normal value for water, intermittent release				0,1	mg/l ECHA 2018			
Normal value of STP microorganisms				9,6	mg/l ECHA 2018			
Normal value for the food chain (secondary poisoning)				20	mg/kg ECHA 2018			
Normal value for the terrestrial compartment				2,68	mg/kg ECHA 2018			
Pigment C.I. Yellow 83								
Health - Derived no-effect level - DNEL / DMEL								
		Effects on consumers			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	28 mg/kg/d				
Inhalation							3 mg/m3	VND
Skin			VND	28 mg/kg/d	VND	45 mg/kg/d		
CHLOROBENZENE								
Threshold Limit Value								
Type	Country	TWA/8h	STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	23	5	70	15			
TLV	CZE	25	6,8	70	19,04			
AGW	DEU	23	5	46	10			
MAK	DEU	23	5	46	10			
TLV	DNK	23	5	70	15	E		
VLA	ESP	23	5	70	15			
VLEP	FRA	23	5	70	15			
AK	HUN	23	5	70	15			
VLEP	ITA	23	5	70	15			
TGG	NLD	23		70				
VLE	PRT	23	5	70	15			
NDS/NDSch	POL	23		70				
TLV	ROU	23	5	70	15			
NGV/KGV	SWE	23	5	70	15			
ESD	TUR	23	5	70	15			
WEL	GBR	4,7	1	14	3	SKIN		
OEL	EU	23	5	70	15			
TLV-ACGIH		46	10					

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UOP-L Paste								
Threshold Limit Value								
Type	Country	TWA/8h	STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	1	RESP					
Soybean oil, epoxidized								
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		5 mg/kg/d		0,8 mg/kg/d				
Inhalation		17,5 mg/m3		2,8 mg/m3		70 mg/m3		11,9 mg/m3
Skin		5 mg/kg/d		0,8 mg/kg/d	10 mg/kg/d	10 mg/kg/d		1,7 mg/kg/d
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,018	mg/l			
Normal value in marine water				0,0018	mg/l			
Normal value for fresh water sediment				2	mg/kg/d			
Normal value for marine water sediment				0,2	mg/kg/d			
Normal value for water, intermittent release				0,018	mg/l			
Normal value of STP microorganisms				100	mg/l			
Normal value for the food chain (secondary poisoning)				41,33	mg/kg			
Normal value for the terrestrial compartment				10	mg/kg/d			
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers			Effects on workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,93 mg/kg bw/d				
Inhalation				1,62 mg/m3				6,6 mg/m3
Skin				0,83 mg/kg bw/d				1,67 mg/kg bw/d
Phthalic anhydride with less than 0,05% of maleic anhydride								
Threshold Limit Value								
Type	Country	TWA/8h	STEL/15min		Remarks / Observations			
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		1						
Bis(2-ethylhexyl) adipate								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,0032	mg/l			
Normal value in marine water				0,0032	mg/l			
Normal value for fresh water sediment				15,6	mg/kg			
Normal value for water, intermittent release				0,0032	mg/l			
Normal value of STP microorganisms				35	mg/l			
Normal value for the terrestrial compartment				0,865	mg/kg/d			

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Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,3 mg/kg bw/d						
Inhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d
Alkyl (C12-14) dimethylamine								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,00026		mg/l		
Normal value in marine water				0,00003		mg/l		
Normal value for fresh water sediment				1,25		mg/kg		
Normal value for marine water sediment				0,125		mg/kg		
Normal value for water, intermittent release				0,00026		mg/l		
Normal value of STP microorganisms				0,13		mg/l		
Normal value for the terrestrial compartment				1		mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					1 mg/m3		1 mg/m3	
Alkyl (C16-C18) dimethylamine								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,00026		mg/l		
Normal value in marine water				0,00003		mg/l		
Normal value for fresh water sediment				1,25		mg/kg		
Normal value for marine water sediment				0,125		mg/kg		
Normal value for water, intermittent release				0,00026		mg/l		
Normal value of STP microorganisms				0,13		mg/l		
Normal value for the terrestrial compartment				1		mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					1 mg/m3		1 mg/m3	
Alkyl (C12-16) dimethylamine								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,00026		mg/l		
Normal value in marine water				0,00003		mg/l		
Normal value for fresh water sediment				1,25		mg/kg		
Normal value for marine water sediment				0,125		mg/kg		
Normal value for water, intermittent release				0,00026		mg/l		
Normal value of STP microorganisms				0,13		mg/l		
Normal value for the terrestrial compartment				1		mg/kg		

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					1 mg/m3		1 mg/m3	

SODIUM HYDROXIDE					
Threshold Limit Value					
Type	Country	TWA/8h	STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	2			
TLV	CZE	1		2	
TLV	DNK			2 (C)	
VLA	ESP			2	
VLEP	FRA	2			
NDS/NDSch	POL	0,5		1	
NGV/KGV	SWE	1		2	INHAL
ESD	TUR	2			
WEL	GBR			2	
TLV-ACGIH				2 (C)	

hexadecyldimethylamine		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,00026	mg/l
Normal value in marine water	0,00003	mg/l
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	0,125	mg/kg
Normal value for water, intermittent release	0,00026	mg/l
Normal value of STP microorganisms	0,13	mg/l
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					1 mg/m3		1 mg/m3	

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

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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.
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.

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	various	
Odour	typical of solvent	
Melting point / freezing point	not available	
Initial boiling point	> 140 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	23 ≤ T ≤ 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	

pH	not available
Kinematic viscosity	not available
Solubility	soluble in water and in polar solvents
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	not available
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

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

BUTAN-1-OL

Attacks various types of plastic materials.

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.

XYLENE

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances,strong acids,alkaline metals.

AROMATIC HYDROCARBONS, C9

May react with: strong oxidising agents.

BUTAN-1-OL

Reacts violently developing heat on contact with: aluminium,strong oxidising agents,strong reducing agents,hydrochloric acid.Forms explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with: air.

10.4. Conditions to avoid

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

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

BUTAN-1-OL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances,strong acids,alkaline metals.

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.

ETHYLBENZENE

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May develop: methane,styrene,hydrogen,ethane.

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

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE
The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

XYLENE
WORKERS: inhalation; contact with the skin.
POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

2-METHOXY-1-METHYLETHYL ACETATE
WORKERS: inhalation; contact with the skin.

ETHYLBENZENE
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

XYLENE
Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

2-METHOXY-1-METHYLETHYL ACETATE
Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

ETHYLBENZENE
As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (IspeSI). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

XYLENE
Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

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

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2-ETHOXY-1-METHYLETHYL ACETATE		
LD50 (Dermal):	13,42 ml/Kg Coniglio / Rabbit	
LD50 (Oral):	> 5000 mg/kg Ratto / Rat	
LC50 (Inhalation vapours):	6,99 mg/l/4h Rat	
XYLENE		
LD50 (Dermal):	4350 mg/kg Rabbit	
ATE (Dermal):	1100 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):	3523 mg/kg Rat	
LC50 (Inhalation vapours):	11,58 mg/l/4h Rat	
CYCLOHEXANONE		
ATE (Dermal):	1100 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):	1890 mg/kg Rat	
LC50 (Inhalation vapours):	> 6,2 mg/l/4h Rat	
ATE (Inhalation vapours):	11 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)	
2-METHOXY-1-METHYLETHYL ACETATE		
LD50 (Dermal):	> 5000 mg/kg Coniglio / Rabbit	
LD50 (Oral):	8500 mg/kg Ratto / Rat	
LC50 (Inhalation vapours):	4345 ppm/6h Ratto / Rat	
BUTYLGLYCOL ACETATE		
ATE (Dermal):	1100 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):	500 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):	> 2,66 mg/l/4h Rat	
ATE (Inhalation vapours):	11 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)	
AROMATIC HYDROCARBONS, C9		
LD50 (Dermal):	> 3160 mg/kg Ratto / Rat	
LD50 (Oral):	3492 mg/kg Ratto / Rat	
LC50 (Inhalation vapours):	> 6193 mg/l/4h Ratto / Rat	
ALUMINIUM POWDER (STABILISED)		
LC50 (Inhalation mists/powders):	> 5 mg/l Ratto / Rat (4h)	
BUTAN-1-OL		
LD50 (Dermal):	3400 mg/kg Rabbit	
LD50 (Oral):	2290 mg/kg Rat	
ATE (Oral):	500 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):	17,76 mg/l/4h Rat	
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC		
LD50 (Dermal):	> 2000 mg/kg bw Rat	
LD50 (Oral):	> 5000 mg/kg bw Rat	
LC50 (Inhalation vapours):	> 5000 mg/m3 8h Rat	
Modified amorphous silicon		
LD50 (Oral):	> 5000 mg/kg Ratto / Rat	
ETHYLBENZENE		
LD50 (Dermal):	15354 mg/kg Rabbit	

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LD50 (Oral): 3500 mg/kg Rat LC50 (Inhalation vapours): 17,2 mg/l/4h Rat Pigment C.I. Yellow 83 LD50 (Oral): > 2000 mg/kg Stimato, metodo di calcolo CHLOROBENZENE LD50 (Oral): > 2000 mg/kg Rat LC50 (Inhalation vapours): 15,5 mg/l/4h Rat Alkyl (C12-14) dimethylamine LD50 (Oral): 1015 mg/kg Ratto - Rat Alkyl (C16-C18) dimethylamine LD50 (Oral): 1000 mg/kg 1000 - 2000 mg/kg Ratto - Rat Alkyl (C12-16) dimethylamine LD50 (Oral): 1000 mg/kg 1000 2000 mg/kg - Ratto - Rat <u>SKIN CORROSION / IRRITATION</u> Causes skin irritation <u>SERIOUS EYE DAMAGE / IRRITATION</u> Causes serious eye damage <u>RESPIRATORY OR SKIN SENSITISATION</u> May produce an allergic reaction. Contains: Phthalic anhydride with less than 0,05% of maleic anhydride <u>GERM CELL MUTAGENICITY</u> Does not meet the classification criteria for this hazard class <u>CARCINOGENICITY</u> Does not meet the classification criteria for this hazard class XYLENE Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential". ETHYLBENZENE Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014). <u>REPRODUCTIVE TOXICITY</u> Does not meet the classification criteria for this hazard class <u>STOT - SINGLE EXPOSURE</u> May cause respiratory irritation May cause drowsiness or dizziness		

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

11.2. Information on other hazards

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

Alkyl (C12-14) dimethylamine	
LC50 - for Fish	0,26 mg/l/96h Danio rerio
EC50 - for Crustacea	0,0558 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,0165 mg/l/72h
Chronic NOEC for Crustacea	0,036 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	100 mg/kg 21 d
Alkyl (C16-C18) dimethylamine	
LC50 - for Fish	0,26 mg/l/96h Danio rerio
EC50 - for Crustacea	0,056 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,0099 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Crustacea	0,036 mg/l Daphnia magna - 21d
Alkyl (C12-16) dimethylamine	
LC50 - for Fish	0,26 mg/l/96h Danio rerio
EC50 - for Crustacea	0,056 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,0099 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Crustacea	0,036 mg/l Daphnia magna - 21d
hexadecyldimethylamine	
LC50 - for Fish	0,26 mg/l/96h
EC50 - for Crustacea	0,056 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,0165 mg/l/72h
Chronic NOEC for Crustacea	0,036 mg/l
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC	
LC50 - for Fish	> 1000 mg/l/96h Oncorhynchus mykiss OECD 203
EC50 - for Crustacea	> 1000 mg/l/48h Daphnia magna

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AROMATIC HYDROCARBONS, C9

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

> 9,2 mg/l/96h Oncorhynchus mykiss

> 3,2 mg/l/48h Daphnia magna

> 2,9 mg/l/72h Pseudokirchneriella subcapitata

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Fish

Chronic NOEC for Crustacea

134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

> 500 mg/l/48h Daphnia magna

> 1000 mg/l/72h Selenastrum capricornutum OECD 201

47,5 mg/l Oryzias latipes 14 gg OECD 204

100 mg/l Dapnia magna 21 gg OECD 202

2-ETHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

140 mg/l/48h Oncorhynchus mykiss (test 48h)

110 mg/l/48h Daphnia magna

> 100 mg/l/72h Scenedesmus subspicatus

ETHYLBENZENE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

4,2 mg/l/96h Oncorhynchus mykiss OECD TG 203

2,4 mg/l/48h Daphnia magna (database Ecotox)

3,6 mg/l/72h Pseudokirchneriella subcapitata (IUCLID)

CHLOROBENZENE

LC50 - for Fish

7,72 mg/l/96h Pimephales promelas

BUTAN-1-OL

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

1376 mg/l/96h Pimephales promelas

1328 mg/l/48h Daphnia magna

225 mg/l/96h 96h - Selenastrum capricornutum

CYCLOHEXANONE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

527 mg/l/96h 527 - 732 / Pimephales promelas

> 100 mg/l/48h Daphnia magna

> 100 mg/l/72h Scenedesmus subspicatus

BUTYLGLYCOL ACETATE

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

> 20 mg/l/96h Fish 20-40 mg/kg (48h)

145 mg/l/24h Daphnia Magna (24h)

1570 mg/l/72h Scenedesmus subspicatus

Modified amorphous silicon

LC50 - for Fish

EC50 - for Crustacea

> 10000 mg/l/96h Brachydanio rerio OECD 203

> 10000 mg/l/24h Daphnia Magna OCSE 202 - 24 h

12.2. Persistence and degradability

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Alkyl (C12-14) dimethylamine		
Rapidly degradable		
Alkyl (C16-C18) dimethylamine		
Rapidly degradable		
Alkyl (C12-16) dimethylamine		
Rapidly degradable		
HYDROCARBONS, C10-C13, n-alkanes,		
isoalkanes, CYCLIC, <2% AROMATIC		
Rapidly degradable		
AROMATIC HYDROCARBONS, C9		
Rapidly degradable		
ALUMINIUM POWDER (STABILISED)		
Solubility in water	0 mg/l	
Degradability: information not available		
XYLENE		
Solubility in water	100 - 1000 mg/l	
Rapidly degradable		
2-METHOXY-1-METHYLETHYL ACETATE		
Solubility in water	> 10000 mg/l	
Rapidly degradable		
OECD GI 301F 83% 10 d		
2-ETHOXY-1-METHYLETHYL ACETATE		
Solubility in water	> 10000 mg/l	
Rapidly degradable		
Activated sludge - 89%/15 d - 100%/28 d		
ETHYLBENZENE		
Solubility in water	200 mg/l ECHA 2018/05/18	
Rapidly degradable		
CHLOROBENZENE		
Solubility in water	100 - 1000 mg/l	
NOT rapidly degradable		
BUTAN-1-OL		
Solubility in water	78 mg/l	
Rapidly degradable		
CYCLOHEXANONE		
Solubility in water	86 mg/l	
Rapidly degradable		
BUTYLGLYCOL ACETATE		
Solubility in water	15000 mg/l	
Rapidly degradable		
Modified amorphous silicon		
Solubility in water	> 1 mg/l	
12.3. Bioaccumulative potential		
Alkyl (C12-14) dimethylamine		
Partition coefficient: n-octanol/water	5 2,4 - 6,91	
XYLENE		

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Partition coefficient: n-octanol/water 3,12 BCF 25,9 2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water 1,2 BCF 100 2-ETHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water 0,76 BCF 3,162 ETHYLBENZENE Partition coefficient: n-octanol/water 3,6 CHLOROBENZENE Partition coefficient: n-octanol/water 3 BUTAN-1-OL Partition coefficient: n-octanol/water 1 BCF 3,16 CYCLOHEXANONE Partition coefficient: n-octanol/water 0,86 BUTYLGLYCOL ACETATE Partition coefficient: n-octanol/water 1,51 12.4. Mobility in soil XYLENE Partition coefficient: soil/water 2,73 2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: soil/water 1,7 2-ETHOXY-1-METHYLETHYL ACETATE Partition coefficient: soil/water 1 CHLOROBENZENE Partition coefficient: soil/water 2,42 BUTAN-1-OL Partition coefficient: soil/water 0,388 CYCLOHEXANONE		

Partition coefficient: soil/water 1,18

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 ≥ 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 1210

14.2. UN proper shipping name

ADR / RID: PRINTING INK or PRINTING INK RELATED MATERIAL
IMDG: PRINTING INK or PRINTING INK RELATED MATERIAL
IATA: PRINTING INK or PRINTING INK 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: III

14.5. Environmental hazards

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

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30	Limited Quantities: 5 It	Tunnel restriction code: (D/E)
	Special provision: 163, 367		
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 It	
IATA:	Cargo:	Maximum quantity: 220 L	Packaging instructions: 366
	Passengers:	Maximum quantity: 60 L	Packaging instructions: 355
	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

Product

Point 3 - 40

Contained substance

Point	75	Phthalic anhydride with less than 0,05% of maleic anhydride REACH Reg.: 01-2119457017-41
Point	75	BUTAN-1-OL REACH Reg.: 01-2119484630-38
Point	75	2-methoxypropyl acetate

Point	75	XYLENE REACH Reg.: 01-2119488216-32-xxxx
Point	75	CYCLOHEXANONE REACH Reg.: 01-2119453616-35-xxxx
Point	75	CHLOROBENZENE REACH Reg.: 01-2119432722-45-xxxx
Point	75	Pigment C.I. Yellow 83
Point	75	ALUMINIUM POWDER (STABILISED) REACH Reg.: 01-2119529243-45

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

not applicable

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 not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

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Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Flam. Sol. 1	Flammable solid, 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
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains <name of sensitising substance>. May produce an allergic reaction.

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

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- 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
- 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

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI 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.

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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.

For information on any exposure scenarios of the substances present in the mixture, contact Sericom Italia srl.

Changes to previous review:
The following sections were modified:
01 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.