

Safety Data Sheet

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

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

1.1. Product identifier

Code: **CRYSTAL_CLEAR**
Product name: **CRYSTAL CLEAR**
Chemical name and synonym: **COLOURED GLUE WITH UNSATURATED POLYESTER RESIN**

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

Intended use: **TRANSPARENT GLUE WITH UNSATURATED POLYESTER RESIN.**

Identified Uses	Industrial	Professional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR	✓	✓	-

1.3. Details of the supplier of the safety data sheet

Name: **STONEGATE PRECISION TOOLING LTD**
Full address: **MELTON HOUSE, JACKSON WAY**
District and Country: **HU14 3HJ MELTON, EAST YORKSHIRE
UNITED KINGDOM**
Tel.: **+44 (0) 1482 620400**

e-mail address of the competent person responsible for the Safety Data Sheet

info@stonegatetooling.co.uk

Supplier:

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1.4. Emergency telephone number

For urgent inquiries refer to

Ireland
National Poisons Information Centre, Beaumont Hospital, PO Box 1297, Beaumont Road, Dublin 9
Members of the public: 01 809 2166 (8am to 10pm every day)
Healthcare professionals: 01 809 2566 or 01 837 9964 (24 hours)

Malta
112

0 800 314 7900 (Turkey) only, or +90 0312 433 70 01 - Toxicology Department and Poisons Centre
+98 21 6419306 / +98 21 6405569 - Poisons Information Centre (Tehran)
+91 484 4008056 - Poison Control Centre (South India)
(011) 642 2417 / (011) 488 3108 - Anti-Poison Centre (Johannesburg)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.
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	H335	May cause respiratory irritation.

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SECTION 2. Hazards identification ... / >>

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

H361d

H372

H319

H315

H335

H412

EUH208

Flammable liquid and vapour.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

Contains: COBALT BIS 2-ETHYL HEXANOATE

OCTABENZONE

May produce an allergic reaction.

Precautionary statements:

P210

P280

P370+P378

P261

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

Wear protective gloves/ protective clothing / eye protection / face protection.

In case of fire: use CO2, sand, powder to extinguish.

Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains:

STYRENE

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

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
STYRENE INDEX 601-026-00-0	30 ≤ x < 50	Flam. Liq. 3 H226, Repr. 2 H361d, Acute Tox. 4 H332, STOT RE 1 H372, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: D LC50 Inhalation vapours: 11,8 mg/l/4h
EC CAS REACH Reg.	202-851-5 100-42-5 01-2119457861-32	

EPY 11.5.1 - SDS 1004.14

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

INDEX 0,4 ≤ x < 0,45

EC 217-421-2

CAS 1843-05-6

REACH Reg. 01-2119557833-30

COBALT BIS 2-ETHYL HEXANOATE

INDEX 0,05 ≤ x < 0,1

EC 205-250-6

CAS 136-52-7

REACH Reg. 01-2119524678-29

1-METHYL-2-METHOXYETHYL ACETATE

INDEX 607-195-00-7 0 ≤ x < 0,05

EC 203-603-9

CAS 108-65-6

REACH Reg. 01-2119475791-29

XYLENE

INDEX 601-022-00-9 0 ≤ x < 0,05

EC 215-535-7

CAS 1330-20-7

REACH Reg. 01-2119488216-32

ETHYLBENZENE

INDEX 601-023-00-4 0 ≤ x < 0,05

EC 202-849-4

CAS 100-41-4

REACH Reg. 01-2119489370-35-xxxx

TOLUENE

INDEX 601-021-00-3 0 ≤ x < 0,05

EC 203-625-9

CAS 108-88-3

REACH Reg. 01-2119471310-51

N-BUTYL ACETATE

INDEX 607-025-00-1 0 ≤ x < 0,05

EC 204-658-1

CAS 123-86-4

REACH Reg. 01-2119485493-29

Skin Sens. 1 H317**Repr. 1B H360F, Eye Irrit. 2 H319, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412****Flam. Liq. 3 H226, STOT SE 3 H336****Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l****Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 LC50 Inhalation vapours: 17,2 mg/l/4h****Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336****Flam. Liq. 3 H226, STOT SE 3 H336, EUH066**

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

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

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

Information not available

SECTION 5. Firefighting measures**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

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SECTION 5. Firefighting measures ... / >>		
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. Combustion products: mainly COx		
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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.		
7.2. Conditions for safe storage, including any incompatibilities		
Store only in the original container. 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.		
7.3. Specific end use(s)		
Information not available		

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021, Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
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.)
CHE	Suisse / Schweiz	Valeurs limites d'exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
CYP	Κύπρος	Οι πεπτά Αζθάλειαι και Υγείαι ζηνη Δπραζία (Φημικοί Παπάγονηερ) (Τποποποιητικοί) Κανονιζμοί ηος 2019. Οι περί Ασφάλειας και Υγείας στην Εργασία (Καρκινογόνοι και Μεταλλαξιγόνοι Παράγοντες) (Τροποποιητικοί) Κανονισμοί του 2020
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
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 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohutegurite piinormid [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 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelethez a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
IRL	Éire	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)
LUX	Luxembourg	Règlement grand-ducal du 24 janvier 2020 modifiant le règlement grand-ducal du 14 novembre 2016 concernant la protection des salariés contre les risques liés à l'exposition à des agents cancérogènes ou mutagènes au travail
LTU	Lietuva	Jsakymas dėl lietuvis higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
MLT	Malta	PROTECTION OF THE HEALTH AND SAFETY OF WORKERS FROM THE RISKS RELATED TO CHEMICAL AGENTS AT WORK REGULATIONS (S.L.424.24). PROTECTION OF WORKERS FROM THE RISKS RELATED TO EXPOSURE TO CARCINOGENS OR MUTAGENS AT WORK REGULATIONS (S.L.424.22)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
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)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred

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

SVN	Slovenija	rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
TUR	Türkiye	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
EU	OEL EU	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	TLV-ACGIH	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.
	RCP TLV	ACGIH 2022
		ACGIH TLVs and BEIs – Appendix H

XYLENE**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	221	50	442	100	Häufigkeit pro Schicht:4x
VLEP	BEL	221	50	442	100	SKIN
TLV	BGR	221	50	442	100	SKIN
TLV	CYP	221	50	442	100	SKIN
TLV	CZE	200	45,4	400	90,8	SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
TLV	DNK	109	25			SKIN E
VLA	ESP	221	50	442	100	SKIN
TLV	EST	200	50	450	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
HTP	FIN	220	50	440	100	SKIN
TLV	GRC	435	100	650	150	
AK	HUN	221		442		SKIN
GVI/KGVI	HRV	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
OELV	IRL	221	50	442	100	SKIN
VL	LUX	221	50	442	100	SKIN
RD	LTU	221	50	442	100	SKIN
RV	LVA	221	50	442	100	SKIN
TLV	MLT	221	50	442	100	SKIN
TLV	NOR	108	25			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
NPEL	SVK	221	50	442	100	SKIN
MV	SVN	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 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

Route of exposure	Effects on consumers			Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local
Oral				12,5 mg/kg bw/d			
Inhalation		174 mg/m3	1872	14,8 mg/m3	289 mg/m3	289 mg/m3	77 mg/m3
Skin				14,8 mg/kg bw/d			180 mg/kg bw/d

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SECTION 8. Exposure controls/personal protection ... / >>**DIETHYLENE GLYCOL****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	44	10	176	40	Häufigkeit pro Schicht:4x
MAK	CHE	44	10	176	40	
VME/VLE	CHE	44	10	176	40	
AGW	DEU	44	10	176	40	
MAK	DEU	44	10	176	40	
TLV	EST	45	10	90	20	SKIN
GVI/KGVI	HRV	101	23			
OELV	IRL	100	23			
RD	LTU	45	10	90	20	SKIN
RV	LVA	10				
NDS/NDSch	POL	10				INHAL
TLV	ROU	500	115	800	184	
NGV/KGV	SWE	45	10	90 (C)	20 (C)	SKIN
NPEL	SVK	44	10	90	20	
MV	SVN	44	10	176	40	
WEL	GBR	101	23			

COBALT BIS 2-ETHYL HEXANOATE**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TRK	AUS	0,1		0,4		INHAL CO. STEL:15',Häufigkeit/Sch:4x
TRK	AUS	0,1		0,4		SKIN CO. STEL:15',Häufigkeit/Sch:4x
TLV	BGR	0,005				какo кобалт
MAK	CHE	0,05				SKIN
VME/VLE	CHE	0,05				SKIN
TLV	CZE	0,05		0,1		INHAL Jako Co
GVI/KGVI	HRV	0,1				INHAL
GVI/KGVI	HRV	0,1				SKIN
RD	LTU	0,05				Kaip Co
NGV/KGV	SWE	0,02				SKIN Som Co
NPEL	SVK	0,05				Ako Co
WEL	GBR	0,1				As Co
TLV-ACGIH		0,02				INHAL Co

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00062	mg/l
Normal value in marine water	0,00236	mg/l
Normal value for fresh water sediment	53,8	mg/kg
Normal value for marine water sediment	69,8	mg/kg
Normal value of STP microorganisms	0,37	mg/l
Normal value for the terrestrial compartment	10,39	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic 0,175 mg/kg bw/d	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral								
Inhalation			0,037 mg/m3				0,235 mg/m3	

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SECTION 8. Exposure controls/personal protection ... / >>**AMORPHOUS SILICATE HYDRATE****Threshold Limit Value**

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
MAK	AUS	4				INHAL
MAK	CHE	4				
VME/VLE	CHE	4				
AGW	DEU	4				INHAL
MAK	DEU	4				INHAL
TLV	EST	2				
RV	LVA	1				
MV	SVN	4				INHAL

2-METHOXY-1-METHYLETHYL ACETATE**Threshold Limit Value**

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
MAK	AUS	275	50	550	100	SKIN STEL:5(Mow), Häufigkeit/Sch:8x
VLEP	BEL	275	50	550	100	SKIN
TLV	BGR	275	50	550	100	SKIN
MAK	CHE	275	50	275	50	
VME/VLE	CHE	275	50	275	50	
TLV	CYP	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			SKIN E
VLA	ESP	275	50	550	100	SKIN
TLV	EST	275	50	550	100	SKIN
VLEP	FRA	275	50	550	100	SKIN
HTP	FIN	270	50	550	100	SKIN
TLV	GRC	275	50	550	100	
AK	HUN	275		550		
GVI/KGVI	HRV	275	50	550	100	SKIN
VLEP	ITA	275	50	550	100	SKIN
OELV	IRL	275	50	550	100	SKIN
VL	LUX	275	50	550	100	SKIN
RD	LTU	250	50	400	75	SKIN
RV	LVA	275	50	550	100	SKIN
TLV	MLT	275	50	550	100	SKIN
TLV	NOR	270	50			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
NPEL	SVK	275	50	550	100	SKIN
MV	SVN	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/kg
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

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				36 mg/kg bw/d				
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3			275 mg/m3
Skin				320				796

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mg/kg bw/d

mg/kg
bw/d**ISO-BUTANOL****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	150	50	600	200	Häufigkeit pro Schicht:4x
VLEP	BEL	154	50			
MAK	CHE	150	50	150	50	
VME/VLE	CHE	150	50	150	50	
TLV	CZE	300	97,5	600	195	
AGW	DEU	310	100	310 (C)	100 (C)	
MAK	DEU	310	100	310	100	
TLV	DNK			150 (C)	50 (C)	SKIN
VLA	ESP	154	50			
TLV	EST	150	50			
VLEP	FRA	150	50			
TLV	GRC	300	100	300	100	
GVI/KGVI	HRV	154	50	231	75	SKIN
OELV	IRL	150	50	225	75	
RD	LTU	10				SKIN
RV	LVA	10				
TLV	NOR	75	25			SKIN
TGG	NLD	150				
NDS/NDSch	POL	100		200		SKIN
TLV	ROU	100	33	200	66	
NGV/KGV	SWE	150	50	250 (C)	75 (C)	SKIN
NPEL	SVK	310	100			
MV	SVN	310	100	310	100	
WEL	GBR	154	50	231	75	
TLV-ACGIH		152	50			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,4	mg/l
Normal value in marine water	0,04	mg/l
Normal value for fresh water sediment	1,52	mg/kg
Normal value for marine water sediment	0,152	mg/kg
Normal value for water, intermittent release	11	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,0699	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				25 mg/kg bw/d				
Inhalation			55 mg/m3				310 mg/m3	

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Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	190	50	380	100	SKIN	Häufigkeit pro Schicht:4x
VLEP	BEL	77	20	384	100	SKIN	
TLV	BGR	192	50	384	100	SKIN	
MAK	CHE	190	50	760	200	SKIN	
VME/VLE	CHE	190	50	760	200	SKIN	
TLV	CZE	192	50,112	384	100,224	SKIN	
AGW	DEU	190	50	760	200	SKIN	
MAK	DEU	190	50	760	200	SKIN	
TLV	DNK	94	25			SKIN	E
VLA	ESP	192	50	384	100	SKIN	
TLV	EST	192	50	384	100	SKIN	
VLEP	FRA	76,8	20	384	100	SKIN	
HTP	FIN	81	25	380	100	SKIN	Buller
TLV	GRC	192	50	384	100		
AK	HUN	190		380		SKIN	
GVI/KGVI	HRV	192	50	384	100	SKIN	
VLEP	ITA	192	50			SKIN	
OELV	IRL	192	50	384	100	SKIN	
VL	LUX	192	50	384	100	SKIN	
RD	LTU	192	50	384	100	SKIN	
RV	LVA	50	14	150	40	SKIN	
TLV	MLT	192	50	384	100	SKIN	
TLV	NOR	94	25			SKIN	
TGG	NLD	150		384			
VLE	PRT	192	50	384	100	SKIN	
NDS/NDSch	POL	100		200		SKIN	
TLV	ROU	192	50	384	100	SKIN	
NGV/KGV	SWE	192	50	384	100	SKIN	
NPEL	SVK	192	50	384	100	SKIN	
MV	SVN	192	50	384	100	SKIN	
ESD	TUR	192	50	384	100	SKIN	
WEL	GBR	191	50	384	100	SKIN	
OEL	EU	192	50	384	100	SKIN	
TLV-ACGIH			20				

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,68	mg/l
Normal value in marine water	0,68	mg/l
Normal value for fresh water sediment	16,39	mg/kg/d
Normal value for marine water sediment	16,39	mg/kg/d
Normal value for water, intermittent release	0,68	mg/l
Normal value of STP microorganisms	13,61	mg/l
Normal value for the terrestrial compartment	2,89	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				8,13 mg/kg bw/d				8,13
Inhalation	226 mg/m3	226 mg/m3	56,5 mg/m3	56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin				226 mg/kg bw/d				384 mg/kg bw/d



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ETHYLBENZENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
MAK	AUS	440	100	880	200	SKIN	STEL:5(Mow), Häufigkeit/Sch:8x
VLEP	BEL	87	20	551	125	SKIN	
TLV	BGR	435		545		SKIN	
MAK	CHE	220	50	220	50	SKIN	
VME/VLE	CHE	220	50	220	50	SKIN	
TLV	CYP	442	100	884	200	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			SKIN	E
VLA	ESP	441	100	884	200	SKIN	
TLV	EST	442	100	884	200	SKIN	
VLEP	FRA	88,4	20	442	100	SKIN	
HTP	FIN	220	50	880	200	SKIN	
TLV	GRC	435	100	545	125		
AK	HUN	442		884		SKIN	
GVI/KGVI	HRV	442	100	884	200	SKIN	
VLEP	ITA	442	100	884	200	SKIN	
OELV	IRL	442	100	884	200	SKIN	
VL	LUX	442	100	884	200	SKIN	
RD	LTU	442	100	884	200	SKIN	
RV	LVA	442	100	884	200	SKIN	
TLV	MLT	442	100	884	200	SKIN	
TLV	NOR	20	5			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	
NPEL	SVK	442	100	884	200	SKIN	
MV	SVN	442	100	884	200	SKIN	
ESD	TUR	442	100	884	200	SKIN	
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
Normal value in marine water	0,01	mg/l
Normal value for water, intermittent release	0,1	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					293 mg/m3			77 mg/m3
Skin								180 mg/kg/d



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STYRENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	85	20	340	80	STEL:15', Häufigkeit/Sch:4x
VLEP	BEL	108	25	216	50	
TLV	BGR	85		215		
MAK	CHE	85	20	170	40	SKIN
VME/VLE	CHE	85	20	170	40	
TLV	CZE	100	23,1	400	92,4	
AGW	DEU	86	20	172	40	SKIN
MAK	DEU	86	20	172	40	
TLV	DNK			105 (C)	25 (C)	
VLA	ESP	86	20	172	40	SKIN
TLV	EST	90	20	200	50	
VLEP	FRA	100	23,3	200	46,6	
HTP	FIN	86	20	430	100	Buller
TLV	GRC	425	100	1050	250	
AK	HUN	86		172		
GVI/KGVI	HRV	430	100	1080	250	SKIN
OELV	IRL	85	20	170	40	
RD	LTU	90	20	200	50	
RV	LVA	10		30		SKIN
TLV	NOR	105	25			
TGG	NLD	107				
NDS/NDSch	POL	50		100		SKIN
TLV	ROU	50	12	150	35	
NGV/KGV	SWE	43	10	86 (C)	20 (C)	
NPEL	SVK	90	20	200	50	
MV	SVN	86	20	344	80	
WEL	GBR	430	100	1080	250	
TLV-ACGIH		10		20		

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,028	mg/l
Normal value in marine water	0,0028	mg/l
Normal value for fresh water sediment	0,614	mg/kg
Normal value for marine water sediment	0,0614	mg/kg
Normal value for water, intermittent release	0,04	mg/l
Normal value of STP microorganisms	5	mg/l
Normal value for the terrestrial compartment	0,2	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral			VND	2,1 mg/kg				
Inhalation	182,75 mg/m3	174,25 mg/m3	VND	85 mg/m3	306 mg/m3	289 mg/m3	VND	10,6 mg/m3
Skin			VND	343 mg/kg			VND	406 mg/kg

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Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	241	50	480 (C)	100 (C)	
VLEP	BEL	238	50	712	150	
TLV	BGR	710		950		
MAK	CHE	480	100	960	200	
VME/VLE	CHE	480	100	960	200	
TLV	CZE	950	196,65	1200	248,4	
AGW	DEU	300	62	600 (C)	124 (C)	
TLV	DNK	710	150			
VLA	ESP	241	50	724	150	
TLV	EST	500	100	700	150	
VLEP	FRA	710	150	940	200	
TLV	GRC	710	150	950	200	
AK	HUN	241		723		
GVI/KGVI	HRV	241	50	723	150	
VLEP	ITA	241	50	723	150	
OELV	IRL	710	150	950	200	
RD	LTU	241	50	723	150	
RV	LVA	200				
TLV	NOR		75			
TGG	NLD	150				
VLE	PRT	241	50	723	150	
NDS/NDSch	POL	240		720		
TLV	ROU	241	50	723	150	
NGV/KGV	SWE	241	50	723 (C)	150 (C)	
NPEL	SVK	241	50	723	150	
MV	SVN	300	62	600	124	
WEL	GBR	724	150	966	200	
OEL	EU	241	50	723	150	
TLV-ACGIH			50		150	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,18	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	0,981	mg/kg
Normal value for marine water sediment	0,0981	mg/kg
Normal value for water, intermittent release	0,36	mg/l
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,0903	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		2 mg/kg bw/d		2 mg/kg bw/d				
Inhalation	300 mg/m3	300 mg/m3	37,5 mg/m3	37,5 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	300 mg/m3
Skin		6 mg/kg bw/d		6 mg/kg bw/d		11 mg/kg bw/d		11 mg/kg bw/d

2-ETHYLHEXANOIC ACID**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	BEL	5				
VLA	ESP	5				
VLEP	ITA	5				INHAL
OELV	IRL	4				
VLE	PRT	5				INHAL
TLV-ACGIH		5				INHAL

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Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				11 mg/kg bw/d				
Inhalation				32 mg/m3				150 mg/m3
Skin				11 mg/kg bw/d				25 mg/kg bw/d

COPPER CHLORIDE**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	1		4		INHAL Cu. STEL:15',Häufigkeit/Sch:4x
MAK	AUS	0,1		0,4		RESP Cu. STEL:15',Häufigkeit/Sch:4x
TLV	BGR	1				като мед
MAK	CHE	0,1		0,2		INHAL
VME/VLE	CHE	0,1		0,2		INHAL
MAK	DEU	0,01		0,02		
VLA	ESP	0,01				RESP Como Cu
TLV	EST	0,2				arvutatud vasele, peentolm
HTP	FIN	0,02				RESP Som Cu
RD	LTU	1				INHAL Kaip Cu
RD	LTU	0,2				RESP Kaip Cu
RV	LVA	0,5				
NDS/NDSch	POL	0,2				Na Cu
NGV/KGV	SWE	0,01				RESP Som Cu
NPEL	SVK	1				INHAL Ako Cu
NPEL	SVK	0,2				RESP Ako Cu
MV	SVN	1		4		INHAL
WEL	GBR	1		2		As Cu

2,6-TERT BUTYL-P-CRESOL**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	10				
MAK	CHE	10				
AGW	DEU	10				SKIN 40mg/m3
VLEP	FRA	10				
HTP	FIN	10		20		
OELV	IRL	10				
VLE	PRT	2				
WEL	GBR	10		30		

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00019	mg/l
	9	
Normal value in marine water	0,00001	mg/l
	99	
Normal value for fresh water sediment	0,458	mg/kg/d
Normal value for marine water sediment	0,046	mg/kg/d
Normal value of STP microorganisms	0,017	mg/l
Normal value for the terrestrial compartment	0,054	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,25 mg/kg bw/d				0,5 mg/kg bw/d
Inhalation				0,435 mg/m3				1,76 mg/m3
Skin				0,25				0,5

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mg/kg bw/d

mg/kg
bw/d**2,6-DI-TERT-BUTYL-A-DIMETHYLAMINO-P-CRESOL****Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,3	mg/l
Normal value in marine water	0,03	mg/l
Normal value for fresh water sediment	0,072	mg/kg/d
Normal value for marine water sediment	0,007	mg/kg/d
Normal value for water, intermittent release	0,3	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the food chain (secondary poisoning)	10	kg/kg food
Normal value for the terrestrial compartment	0,008	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1 mg/kg bw/d						0,15 mg/kg bw/d
Inhalation				0,5 mg/m3				2,11 mg/m3
Skin	0,00987 mg/cm2		0,00987 mg/cm2	0,15 mg/kg bw/d	0,01975 mg/cm2	0,3 mg/kg bw/d		

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
RCP TLV		1200	184	600	100			

OCTABENZENE**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,052	mg/l
Normal value in marine water	0,0052	mg/l
Normal value for fresh water sediment	332	mg/kg/d
Normal value for marine water sediment	33,2	mg/kg/d
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	66,1	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						6,6 mg/m3		
Skin						1,87 mg/kg bw/d		

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

XYLENESampling methods: https://amcaw.ifa.dguv.de/substance/methoden/047-Xylene_2016.pdf**ACGIH EIB**

Control parameters: Methylippuric acid, 1.5 g/g creatinine (urine)

Sampling time: at the end of the shift (as soon as possible after cessation of exposure)

2-METHOXY-1-METHYLETHYL ACETATESampling methods: https://amcaw.ifa.dguv.de/substance/methoden/015-methoxypropylacetate_2016.pdf**TOLUENE**

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Sampling methods: https://amcaw.iifa.dguv.de/substance/methoden/017-tuene_2016.pdf ETHYLBENZENE Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/003-ethylbenzene_2016.pdf STYRENE Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/004-styrene_2016.pdf N-BUTYL ACETATE Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/037-n-butyl_acetate_2016.pdf																							
8.2. Exposure controls																							
As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice. Personal protective equipment must be CE marked, showing that it complies with applicable standards. Provide an emergency shower with face and eye wash station. Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times). HAND PROTECTION Protect hands with category III work gloves. The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use. SKIN PROTECTION Wear category III 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). In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption. 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. HAND PROTECTION: Protect hands with work gloves for protection from chemical agents in nitrile or fluoroelastomer (EN 374-1: 2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time> 480 minutes. Material thickness: NITRILE short contact> 0.38 mm prolonged contact> 0.55 mm FLUOROELASTOMER short contact> 0.50 mm prolonged contact> 1.50 mm																							
SECTION 9. Physical and chemical properties																							
9.1. Information on basic physical and chemical properties																							
<table> <tr> <th>Properties</th><th>Value</th><th>Information</th></tr> <tr> <td>Appearance</td><td>paste</td><td></td></tr> <tr> <td>Colour</td><td>transparent</td><td></td></tr> <tr> <td>Odour</td><td>typical</td><td></td></tr> <tr> <td>Melting point / freezing point</td><td>not available</td><td></td></tr> <tr> <td>Initial boiling point</td><td>not available</td><td></td></tr> <tr> <td>Flammability</td><td>not available</td><td></td></tr> </table>	Properties	Value	Information	Appearance	paste		Colour	transparent		Odour	typical		Melting point / freezing point	not available		Initial boiling point	not available		Flammability	not available			
Properties	Value	Information																					
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SECTION 9. Physical and chemical properties ... / >>

Lower explosive limit	not available
Upper explosive limit	not available
Flash point	32 °C
Auto-ignition temperature	not available
Decomposition temperature	not available
pH	not available

Reason for missing data: substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)

Kinematic viscosity	not available
Dynamic viscosity	TIXOTROPICO
Solubility	insoluble in water
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	1,1 g/cm3
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	40,52 %	-	445,72	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.

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.

TOLUENE

Avoid exposure to: light.

STYRENE

Polymerises at temperatures above 65°C/149°F.Fire hazard.Possibility of explosion.

Added with an inhibitor that requires a small amount of dissolved oxygen at temperatures $< 25^{\circ}\text{C}/77^{\circ}\text{F}$.

N-BUTYL ACETATE

Decomposes on contact with: water.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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.

2-METHOXY-1-METHYLETHYL ACETATE

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

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong acids.sulphur.

ETHYLBENZENE

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

STYRENE

May react dangerously with: peroxides, strong acids. May polymerise on contact with: aluminium trichloride, azobisisobutyronitrile, dibenzoyl peroxide, sodium. Risk of explosion on contact with: butyllithium, chlorosulphuric acid, di-tert-butyl



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SECTION 10. Stability and reactivity ... / >>

peroxide,oxidising substances,oxygen.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,potassium tert-butoxide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

STYRENE

Avoid contact with: oxidising substances,copper,strong acids.

N-BUTYL ACETATE

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

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

STYRENE

Incompatible materials: plastic materials.

N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc.

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

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.

TOLUENE

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.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

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

STYRENE

WORKERS: inhalation; contact with the skin.

N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

SECTION 11. Toxicological information ... / >>**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).

TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

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 (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

STYRENE

The acute toxicity by inhalation at 1000 ppm affects the central nervous system with headache and dizziness, lack of coordination; irritation of the eye and respiratory tract mucous membranes occurs at 500 ppm. Chronic exposure causes depression of the central and peripheral nervous system with loss of memory, headache and drowsiness starting at 20 ppm; digestive disorders with nausea and loss of appetite; irritation of the respiratory tract with chronic bronchitis; dermatosis. Repeated exposure, at low doses of inhaled substance, causes irreversible changes to hearing and may cause changes in colour vision. No certain data is available on the reversibility of the visual impairment. Repeated skin exposure causes irritation. The substance degrades the skin, which can cause dryness and cracking.

N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

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.

TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

STYRENE

The metabolism of the substance is inhibited by ethanol. When styrene is photo-oxidised with ozone and nitrogen dioxide, as in the formation of smog, products highly irritating for the human eye may ensue.

N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

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):

26 mg/l/4h Rat



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SECTION 11. Toxicological information ... / >>

COBALT BIS 2-ETHYL HEXANOATE

LD50 (Dermal): > 2000 mg/kg Rat - Wistar
LD50 (Oral): 3129 mg/kg Rat - Sprague-Dawley

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rat
LD50 (Oral): 8530 mg/kg Rat
LC50 (Inhalation vapours): > 23,5 mg/l/4h Ratto

TOLUENE

LD50 (Dermal): 12124 mg/kg Rabbit
LD50 (Oral): 5580 mg/kg Rat
LC50 (Inhalation vapours): 28,1 mg/l/4h Rat

ETHYLBENZENE

LD50 (Dermal): 15354 mg/kg Rabbit
LD50 (Oral): 3500 mg/kg Rat
LC50 (Inhalation vapours): 17,2 mg/l/4h Rat

STYRENE

LD50 (Dermal): > 2000 mg/kg Rat
LD50 (Oral): 5000 mg/kg Rat
LC50 (Inhalation vapours): 11,8 mg/l/4h Rat

N-BUTYL ACETATE

LD50 (Dermal): > 5000 mg/kg Rabbit
LD50 (Oral): > 6400 mg/kg Rat
LC50 (Inhalation vapours): 21,1 mg/l/4h Rat

OCTABENZONE

LD50 (Oral): 10000 mg/kg

2-METHOXY-1-METHYLETHYL ACETATE

Oral route: OECD Test Guideline 401 method

SKIN CORROSION / IRRITATION

Causes skin irritation

2-METHOXY-1-METHYLETHYL ACETATE

OECD Test Guideline 404, Guinea Pig

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

2-METHOXY-1-METHYLETHYL ACETATE

OECD Test Guideline 405, Rabbit

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

COBALT BIS 2-ETHYL HEXANOATE

OCTABENZONE

Skin sensitization

2-METHOXY-1-METHYLETHYL ACETATE

Species: Guinea pig

Method : OECD Test Guideline 406

Result : It is not a skin sensitizer.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

SECTION 11. Toxicological information ... / >>

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".

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).
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).

STYRENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2002).
Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 2014).

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Causes damage to organs

Target organs**TOLUENE**

Ototoxicity, central nervous system

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

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**2-METHOXY-1-METHYLETHYL ACETATE**

LC50 fish, Method: OECD Test Guideline 203

EC50 algae, Method: OECD Test Guideline 201

COBALT BIS 2-ETHYL HEXANOATE

LC50 - for Fish

1,5 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

0,61 mg/l/48h Ceriodaphnia dubia

EC50 - for Algae / Aquatic Plants

0,144 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea

0,0608 mg/l Daphnia magna

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish

134 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

408 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/72h Pseudokirchneriella subcapitata

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SECTION 12. Ecological information ... / >>**ETHYLBENZENE**

LC50 - for Fish 42,3 mg/l/96h

STYRENE

LC50 - for Fish 4,02 mg/l/96h Pimephales promelas
EC50 - for Crustacea 4,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants 4,9 mg/l/72h Pseudokirchneriella subcapitata
EC10 for Algae / Aquatic Plants 0,28 mg/l/72h

N-BUTYL ACETATE

LC50 - for Fish 18 mg/l/96h pimephales promelas
EC50 - for Crustacea > 44 mg/l/48h daphnia
EC50 - for Algae / Aquatic Plants 675 mg/l/72h
Chronic NOEC for Crustacea 23 mg/l 21d

12.2. Persistence and degradability**2-METHOXY-1-METHYLETHYL ACETATE**

Result: Readily biodegradable.
Method: OECD Test Guideline 301F

XYLENE

Solubility in water 100 - 1000 mg/l
Rapidly degradable

COBALT BIS 2-ETHYL HEXANOATE

Solubility in water > 10000 mg/l
Rapidly degradable

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l
Rapidly degradable

TOLUENE

Solubility in water 100 - 1000 mg/l
Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l
Rapidly degradable

STYRENE

Solubility in water 320 mg/l
Rapidly degradable

N-BUTYL ACETATE

Solubility in water 1000 - 10000 mg/l
Rapidly degradable

12.3. Bioaccumulative potential**XYLENE**

Partition coefficient: n-octanol/water 3,12
BCF 25,9

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

TOLUENE

Partition coefficient: n-octanol/water 2,73
BCF 90

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

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SECTION 12. Ecological information

... / >>

STYRENE

Partition coefficient: n-octanol/water

BCF

2,96

74

N-BUTYL ACETATE

Partition coefficient: n-octanol/water

BCF

2,3

15,3

12.4. Mobility in soil

XYLENE

Partition coefficient: soil/water

2,73

STYRENE

Partition coefficient: soil/water

2,55

N-BUTYL ACETATE

Partition coefficient: soil/water

< 3

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
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:1866

14.2. UN proper shipping name

ADR / RID:RESIN SOLUTION
IMDG:RESIN SOLUTION
IATA:RESIN SOLUTION

 EPY 11.5.1 - SDS 1004.14

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SECTION 14. Transport information ... / >>

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:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30 Special provision: -	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-E	Limited Quantities: 5 L	
IATA:	Cargo: Passengers: Special provision:	Maximum quantity: 220 L Maximum quantity: 60 L A3	Packaging instructions: 366 Packaging instructions: 355

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

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 ≥ 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

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SECTION 15. Regulatory information ... / >>Healthcare controls

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

15.2. Chemical safety assessment

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

COBALT BIS 2-ETHYL HEXANOATE

1-METHYL-2-METHOXYETHYL ACETATE

TOLUENE

STYRENE

N-BUTYL ACETATE

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 1B	Reproductive toxicity, category 1B
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H360F	May damage fertility.
H361d	Suspected of damaging the unborn child.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%



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SECTION 16. Other information ... / >>

- 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: 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 as for REACH Regulation
- 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
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 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
 23. Delegated Regulation (UE) 2023/707
- 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:

SECTION 16. Other information ... / >>

01 / 02 / 03 / 05 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.