

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: 220322170029
Product name: SINTOMAK SMALTO R.E. LUCIDO S. 15300

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

Intended use: BLU RT GAMMA

1.3. Details of the supplier of the safety data sheet

Name: IFC COATINGS SRL
Full address: VIA SILVIO FERRARI, 20/1 A
District and Country: 15057 TORTONA (AL)
ITALIA
Tel. 0131/863125
Fax 0131/867753
e-mail address of the competent person responsible for the Safety Data Sheet: info@ifctortona.com

Product distribution by: DOTT. PIERPAOLO CORTESI

1.4. Emergency telephone number

For urgent inquiries refer to: Centro Antiveleni Osp.Niguarda(MI) tel.02/66101029

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classification and indication:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause 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.
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: Warning

Hazard statements:

H226 Flammable liquid and vapour.
H373 May cause damage to organs through prolonged or repeated exposure.

SINTOMAK SMALTO R.E. LUCIDO S. 15300**SECTION 2. Hazards identification ... / >>**

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains: 2-BUTANONE OXIME May produce an allergic reaction.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	In case of fire: Use suitable extinguishers.
P312	Call a POISON CENTER if you feel unwell.

Contains:	XYLENE (MIXTURE OF ISOMERS) HYDROCARBONS, C9, AROMATICS REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE (BENZENE <0,01%)
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2.3. Other hazards

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

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
XYLENE (MIXTURE OF ISOMERS)		
CAS	1330-20-7 20,5 ≤ x < 22	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, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C
EC	215-535-7	
INDEX	601-022-00-9	
Reg. no.	01-2119488216-32	
BARIUM SULFATE 58,8% - metallic element		
CAS	7727-43-7 19 ≤ x < 20,5	Substance with a community workplace exposure limit.
EC	231-784-4	
INDEX		
Reg. no.	01-2119491274-35	
HYDROCARBONS, C9, AROMATICS		
CAS	11,5 ≤ x < 13	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	
INDEX		
Reg. no.	01-2119455851-35	
REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE (BENZENE <0,01%)		
CAS	3,5 ≤ x < 4	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
EC	905-562-9	
INDEX		
Reg. no.	01-2119555267-33	
2-METHOXY-1-METHYLETHYL ACETATE		
CAS	108-65-6 0,6 ≤ x < 0,7	Flam. Liq. 3 H226, STOT SE 3 H336
EC	203-603-9	
INDEX	607-195-00-7	
Reg. no.	01-2119475791-29	

SINTOMAK SMALTO R.E. LUCIDO S. 15300**SECTION 3. Composition/information on ingredients ... / >>****2-ETHYLHEXANOIC ACID, ZIRCONIUM SALT**

CAS 22464-99-9 0,4 ≤ x < 0,45 Repr. 2 H361d
EC 245-018-1
INDEX

Reg. no. 01-2119979088-21

2-BUTANONE OXIME

CAS 96-29-7 0,25 ≤ x < 0,3 Carc. 2 H351, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Sens. 1 H317
EC 202-496-6
INDEX 616-014-00-0
Reg. no. 01-2119539477-28

ETHYLBENZENE

CAS 100-41-4 0 ≤ x < 0,05 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Aquatic Chronic 3 H412
EC 202-849-4
INDEX 601-023-00-4
Reg. no. 01-2119489370-35

2-BUTOXYETHANOL

CAS 111-76-2 0 ≤ x < 0,05 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 203-905-0
INDEX 603-014-00-0
Reg. no. 01-2119475108-36

METHYL ETHYL KETONE

CAS 78-93-3 0 ≤ x < 0,05 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 201-159-0
INDEX 606-002-00-3
Reg. no. 01-2119457290-43

TOLUENE

CAS 108-88-3 0 ≤ x < 0,05 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412
EC 203-625-9
INDEX 601-021-00-3
Reg. no. 01-2119471310-51

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

SECTION 4. First aid measures**4.1. Description of first aid measures**

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

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

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

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

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

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**

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

SECTION 5. Firefighting measures ... / >>

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. 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 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:

EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019
BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 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	TRGS 900 (Fassung 07.06.2018) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2008
EST	Eesti	NIPO: 211-08-011-5 Töökeskkonna keemiliste ohutegurite piirnordid. Vastu võetud Vabariigi Valitsuse 18. septembri 2001. a määrusega nr 293 (RT I 2001, 77, 460), jõustunud 29.09.2001. Muudetud järgmise määrusega (kuupäev, number, avaldamine Riigi Teatajas, jõustumise aeg): 11.10.2007 nr 223 (RT I 2007, 55, 369) 1.01.2008
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18)
HUN	Magyarország	A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000. (IX. 30.) EüM–SZCSM együttes rendelet módosításáról
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
LTU	Lietuva	LIETUVOS HIGIENOS NORMA HN 23:2011 „CHEMINIŲ MEDŽIAGŲ PROFESINIO POVEIKIO RIBINIAI DYDŽIAI. MATAVIMO IR POVEIKIO VERTINIMO BENDRIEJI REIKALAVIMAI. Nr. V-695/A1-272, 2018-06-12, paskelbta TAR 2018-06-15, i. k. 2018-09988
LVA	Latvija	Ķīmisko vielu aroda ekspozīcijas robežvērtības (AER) darba vides gaisā 2018
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
NOR	Norge	Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici

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

SVK	Slovensko	Nariadenie vlády č. 33/2018 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Uradni list Republike Slovenije 04.06.2015 (1602) - Pravilnik o spremembah in dopolnitvah Pravilnika o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
SWE	Sverige	Hygieniska gränsvärden, AFS 2018:1
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	221	50	442	100
TLV-ACGIH			100		150
OEL	EU	221	50	442	100
OEL	EU	221	50	442	100
TLV-ACGIH			100		150
TLV-ACGIH			100		150
TLV	CZE	200		400	
MAK	DEU		100		200
VLA	ESP		50		100
TLV	EST	200	50	450	100
VLEP	FRA	221	50	442	100
WEL	GBR		50		100
TLV	GRC	435	100	650	150
AK	HUN	221		442	
TLV	NOR		25		
NDS/NDSch	POL	100		350	
NPEL	SVK	221	50	442	
NGV/KGV	SWE		50		100
OEL	EU	221	50	442	100
TLV-ACGIH			100		150

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 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	Chronic systemic
Oral			VND	1,6 mg/kg bw/d				
Inhalation			VND	14,8 mg/m3			VND	77 mg/m3
Skin			VND	108 mg/kg bw/d			VND	180 mg/kg bw/d

SINTOMAK SMALTO R.E. LUCIDO S. 15300**SECTION 8. Exposure controls/personal protection ... / >>****BARIUM SULFATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	0,5			
OEL	EU	0,5			
TLV-ACGIH		5			
OEL	EU	0,5			
TLV-ACGIH		5			
TLV-ACGIH		5			
TLV	BGR	10			
MAK	DEU	1,5			RESP
VLA	ESP	10			
WEL	GBR	4			
GVI/KGVI	HRV	10			INHAL
GVI/KGVI	HRV	4			RESP
VLEP	ITA	0,5			
OEL	EU	0,5			
TLV-ACGIH		5			

HYDROCARBONS, C9, AROMATICS**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	100	19		
OEL	EU	100	19		
OEL	EU	100	19		
OEL	EU	100	19		

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			VND	11 mg/kg bw/d				
Inhalation			VND	32 mg/m3			VND	150 mg/m3
Skin			VND	11 mg/kg bw/d			VND	25 mg/kg bw/d

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

REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE (BENZENE <0,01%)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	
OEL	EU	221	50	442	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	
TLV-ACGIH		434	100	651	150	
TLV	CZE	200		400		SKIN
AGW	DEU	440	100	800	200	SKIN
MAK	DEU	440	200	440	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	
GVI/KGVI	HRV	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
NPEL	SVK	221	50	442		SKIN
MV	SVN	221	50			SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,32	mg/l
Normal value in marine water	0,32	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	0,32	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	Chronic systemic				
Oral			VND	1,6 mg/kg/d				
Inhalation	VND	174 mg/m3	VND	14,8 mg/m3	VND	289 mg/m3	VND	77 mg/m3
Skin			VND	108 mg/kg/d				

SINTOMAK SMALTO R.E. LUCIDO S. 15300

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

2-METHOXY-1-METHYLETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	275	50	550	100	SKIN
OEL	EU	275	50	550	100	SKIN
OEL	EU	275	50	550	100	SKIN
TLV	BGR	275	50	550	100	SKIN
TLV	CZE	270	49,95	550	101,75	SKIN
AGW	DEU	270	50	270	50	
MAK	DEU	270	50	270	50	
VLA	ESP	275	50	550	100	SKIN
VLEP	FRA	275	50	550	100	SKIN
WEL	GBR	274	50	548	100	SKIN
TLV	GRC	275	50	550	100	
GVI/KGVI	HRV	275	50	550	100	SKIN
AK	HUN	275		550		
VLEP	ITA	275	50	550	100	SKIN
RD	LTU	250	50	400	75	SKIN
RV	LVA	275	50	550	100	SKIN
TGG	NLD	550				
TLV	NOR	270	50			SKIN
NDS/NDSch	POL	260		520		SKIN
VLE	PRT	275	50	550	100	SKIN
TLV	ROU	275	50	550	100	SKIN
NPEL	SVK	275	50	550	100	SKIN
MV	SVN	275	50	550	100	SKIN
NGV/KGV	SWE	275	50	550	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	0,0636	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		Effects on workers		Chronic systemic
	Acute local	Acute systemic	Chronic local	Chronic systemic	
Oral		500 mg/kg bw/d	VND	36 mg/kg bw/d	
Inhalation			33 mg/m3	550 mg/m3	VND 275 mg/m3
Skin			320	320 mg/kg bw/d	VND 796 mg/kg bw/d

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

2-ETHYLHEXANOIC ACID, ZIRCONIUM SALT

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		5		10		
TLV-ACGIH		5		10		
TLV-ACGIH		5		10		
AGW	DEU	1		1		
VLA	ESP	5		10		Como Zr
WEL	GBR	5		10		As Zr
GVI/KGVI	HRV	5		10		Kao Zr
AK	HUN	5		20		Zr-ra számitva
TLV	NOR	5				Som Zr
NDS/NDSch	POL	5		10		Na Zr
TLV	ROU	5		10		In Zr
NPEL	SVK	1				Ako Zr
MV	SVN	1				
TLV-ACGIH		5		10		INHAL

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	VND	4,51 mg/kg/d						
Inhalation			VND	8,13 mg/m3			VND	32,97 mg/m3
Skin			VND	3,25 mg/kg/d	VND	6,49 mg/kg/d		

2-BUTANONE OXIME

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	1	0,3	8	2,4	SKIN

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,256	mg/l
Normal value for water, intermittent release	0,118	mg/l
Normal value of STP microorganisms	177	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			2 mg/m3	2,7 mg/m3			3,33 mg/m3	9 mg/m3
Skin	VND	1,5 mg/kg bw/d	VND	0,78 mg/kg bw/d	VND	2,5 mg/kg bw/d	VND	1,3 mg/kg bw/d

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

ETHYLBENZENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	442	100	884	200
TLV-ACGIH		434		543	
OEL	EU	442	100	884	200
OEL	EU	442	100	884	200
TLV-ACGIH		434		543	
TLV-ACGIH		434		543	
TLV	CZE	200		500	
VLA	ESP		100		200
TLV	EST	200	50	450	100
VLEP	FRA	442	100	884	200
WEL	GBR		100		125
TLV	GRC	435	100	545	125
AK	HUN	442		884	
TLV	NOR		5		
NPEL	SVK	442	100	884	
NGV/KGV	SWE		50		100
OEL	EU	442	100	884	200
TLV-ACGIH		434		543	

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

2-BUTOXYETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			
OEL	EU	98	20	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			
TLV-ACGIH		97	20			
TLV	BGR	98	20	246	50	SKIN
TLV	CZE	100	20,7	200	41,4	SKIN
AGW	DEU	49	10	196	40	SKIN
MAK	DEU	49	10	98	20	SKIN
VLA	ESP	98	20	245	50	SKIN
TLV	EST	98	20	246	50	SKIN
VLEP	FRA	49	10	246	50	SKIN
WEL	GBR	123	25	246	50	SKIN
TLV	GRC	120	25			
GVI/KGVI	HRV	98	20	246	50	SKIN
AK	HUN	98		246		SKIN
VLEP	ITA	98	20	246	50	SKIN
RD	LTU	50	10	100	20	SKIN
RV	LVA	98	20	246	50	SKIN
TGG	NLD	100		246		SKIN
TLV	NOR	50	10			SKIN
NDS/NDSch	POL	98		200		SKIN
VLE	PRT	98	20	246	50	SKIN
TLV	ROU	98	20	246	50	SKIN
NPEL	SVK	98	20	246	50	SKIN
MV	SVN	98	20	245	50	SKIN
NGV/KGV	SWE	50	10	246	50	SKIN
OEL	EU	98	20	246	50	SKIN
TLV-ACGIH		97	20			

Hinweis

Predicted no-effect concentration - PNEC

Normal value in fresh water	8,8	mg/m3
Normal value in marine water	0,88	mg/l
Normal value for fresh water sediment	34,6	mg/kg
Normal value for marine water sediment	3,46	mg/kg
Normal value for water, intermittent release	9,1	mg/l
Normal value of STP microorganisms	463	mg/kg
Normal value for the food chain (secondary poisoning)	20	mg/kg
Normal value for the terrestrial compartment	2,33	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	VND	26,7 mg/kg bw/d	VND	6,3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3	VND	59 mg/m3	246 mg/m3	1091 mg/m3	VND	98 mg/m3
Skin	VND	89 mg/kg bw/d	VND	75 mg/kg bw/d	VND	89 mg/kg bw/d	VND	125 mg/kg bw/d

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

METHYL ETHYL KETONE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	600	200	900	300	
TLV-ACGIH		590	200	885	300	
OEL	EU	600	200	900	300	
OEL	EU	600	200	900	300	
TLV-ACGIH		590	200	885	300	
TLV-ACGIH		590	200	885	300	
TLV	BGR	590		885		
TLV	CZE	600	203,4	900	305,1	
AGW	DEU	600	200	600	200	SKIN
MAK	DEU	600	200	600	200	SKIN
VLA	ESP	600	200	900	300	
TLV	EST	600	200	900	300	
VLEP	FRA	600	200	900	300	SKIN
WEL	GBR	600	200	899	300	SKIN
TLV	GRC	600	200	900	300	
GVI/KGVI	HRV	600	200	900	300	
AK	HUN	600		900		SKIN
VLEP	ITA	600	200	900	300	
RD	LTU	600	200	900	300	
RV	LVA	200	67	900	300	
TGG	NLD	590		500		SKIN
TLV	NOR	220	75			
NDS/NDSch	POL	450		900		SKIN
VLE	PRT	600	200	900	300	
NPEL	SVK	600	200	900	300	
MV	SVN	600	200	900	300	
NGV/KGV	SWE	150	50	900	300	
OEL	EU	600	200	900	300	
TLV-ACGIH		590	200	885	300	

Predicted no-effect concentration - PNEC

Normal value in fresh water	55,8	mg/l
Normal value in marine water	55,8	mg/l
Normal value for fresh water sediment	284,74	mg/kg
Normal value for marine water sediment	284,7	mg/kg
Normal value for water, intermittent release	55,8	mg/l
Normal value of STP microorganisms	709	mg/l
Normal value for the food chain (secondary poisoning)	1000	mg/kg
Normal value for the terrestrial compartment	22,5	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			VND	31 mg/kg bw/d				
Inhalation			VND	106 mg/m3			VND	600 mg/m3
Skin			VND	412 mg/kg bw/d			VND	1161 mg/kg bw/d

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

TOLUENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			
OEL	EU	192	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	20			
TLV-ACGIH		75,4	20			
TLV	BGR	192	50	384	100	SKIN
TLV	CZE	200	53,2	500	133	SKIN
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
TLV	EST	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
WEL	GBR	191	50	384	100	SKIN
TLV	GRC	192	50	384	100	
GVI/KGVI	HRV	192	50	384	100	SKIN
AK	HUN	190		380		SKIN
VLEP	ITA	192	50			SKIN
RD	LTU	192	50	384	100	SKIN
RV	LVA	50	14	150	40	SKIN
TGG	NLD	150		384		
TLV	NOR	94	25			SKIN
NDS/NDSch	POL	100		200		SKIN
VLE	PRT	192	50	384	100	SKIN
TLV	ROU	192	50	384	100	SKIN
NPEL	SVK	192	50	384	100	SKIN
MV	SVN	192	50	384	100	SKIN
NGV/KGV	SWE	192	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH		75,4	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
Normal value for marine water sediment	16,39	mg/kg
Normal value for water, intermittent release	0,68	mg/l
Normal value of STP microorganisms	13,61	mg/l
Normal value for the terrestrial compartment	2,89	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Effects on workers					
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	8,13 mg/kg/d				
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			VND	226 mg/kg/d			VND	384 mg/kg/d

Legend:

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

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

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 (see standard EN 374).

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

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

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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 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

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

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	Not available	
Odour	typical	
Odour threshold	Not available	
pH	Not available	
Melting point / freezing point	0 °C	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	23 ≤ T ≤ 60 °C	
Evaporation Rate	Not available	
Flammability of solids and gases	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1,264 kg/l	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not available	
Oxidising properties	Not available	

9.2. Other information

Total solids (250°C / 482°F)	61,39 %		
VOC (Directive 2010/75/EC) :	38,59 %	- 487,77	g/litre
VOC (volatile carbon) :	33,93 %	- 428,88	g/litre

SECTION 10. Stability and reactivity**XYLENE (MIXTURE OF ISOMERS)**

The xylene present is stable but may give violent reactions if placed in contact with strong oxidants such as nitric acid, sulfuric acid, perchlorates and similar agents. It is biodegradable in water and decomposes in the sunlight (photodegradable).

10.1. Reactivity

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

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

2-BUTANONE OXIME

Decomposes under the effect of heat.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

METHYL ETHYL KETONE

Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

TOLUENE

Avoid exposure to: light.

10.2. Chemical stability

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

2-ETHYLHEXANOIC ACID, ZIRCONIUM SALT

SADT = 210°C/410°F.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

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

2-BUTANONE OXIME

Reacts violently with: strong oxidising agents, acids.

Above the flash point (69°C/156°F), explosive mixtures can form with air.

2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

METHYL ETHYL KETONE

May form peroxides with: air, light, strong oxidising agents. Risk of explosion on contact with: hydrogen peroxide, nitric acid, sulphuric acid. May react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with: air.

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.

10.4. Conditions to avoid

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

2-BUTOXYETHANOL

Avoid exposure to: sources of heat, naked flames.

METHYL ETHYL KETONE

Avoid exposure to: sources of heat.

10.5. Incompatible materials**2-METHOXY-1-METHYLETHYL ACETATE**

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

2-BUTANONE OXIME

Incompatible with: oxidising substances, strong acids.

METHYL ETHYL KETONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

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.

2-BUTANONE OXIME

May develop: nitric oxide, carbon oxides.

2-BUTOXYETHANOL

May develop: hydrogen.

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.

SECTION 11. Toxicological information ... / >>**11.1. Information on toxicological effects**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

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.

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

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.

Interactive effects

TOLUENE

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

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:

> 20 mg/l

LD50 (Oral) of the mixture:

Not classified (no significant component)

LD50 (Dermal) of the mixture:

>2000 mg/kg

BARIUM SULFATE

LD50 (Oral)

> 3000 mg/kg Mouse

ETHYLBENZENE

LD50 (Oral)

3500 mg/kg rat

LD50 (Dermal)

17800 mg/kg rabbit

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral)

3523 mg/kg Rat

LD50 (Dermal)

4350 mg/kg Rabbit

LC50 (Inhalation)

6350 ppm/4h Rat

HYDROCARBONS, C9, AROMATICS

LD50 (Oral)

3492 mg/kg rat

LD50 (Dermal)

> 3160 mg/kg rabbit

LC50 (Inhalation)

> 6193 mg/m³/4h rat

REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE (BENZENE <0,01%)

LD50 (Oral)

3523 mg/kg rat

LD50 (Dermal)

12126 mg/kg rabbit

LC50 (Inhalation)

6700 ppm/4h rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Oral)

8530 mg/kg Rat

LD50 (Dermal)

> 5000 mg/kg Rat

LC50 (Inhalation)

30 mg/l/4h Rat

SECTION 11. Toxicological information ... / >>**2-ETHYLHEXANOIC ACID, ZIRCONIUM SALT**

LD50 (Oral)	> 5000 mg/kg Rat - Sprague-Dawley
LD50 (Dermal)	> 2000 mg/kg Rat - Wistar
LC50 (Inhalation)	> 4,3 mg/l/4h Rat

TOLUENE

LD50 (Oral)	5580 mg/kg Rat
LD50 (Dermal)	12267 mg/kg Rabbit
LC50 (Inhalation)	25,7 mg/l/4h Rat

2-BUTOXYETHANOL

LD50 (Oral)	1746 mg/kg Rat
LD50 (Dermal)	> 2000 mg/kg guinea pig
LC50 (Inhalation)	523 ppm/4h Rat

METHYL ETHYL KETONE

LD50 (Oral)	2737 mg/kg Rat
LD50 (Dermal)	6480 mg/kg Rabbit
LC50 (Inhalation)	23,5 mg/l/8h Rat

2-BUTANONE OXIME

LD50 (Oral)	2400 mg/kg Rat
LD50 (Dermal)	> 1000 mg/kg Rabbit
LC50 (Inhalation)	20 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

2-BUTANONE OXIME

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

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".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

May cause damage to organs

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.
XYLENE (MIXTURE OF ISOMERS)

12.1. Toxicity

XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish	2,6 mg/l/96h oncorhynchus mychiss
EC50 - for Algae / Aquatic Plants	4,36 mg/l/72h pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 1,3 mg/l oncorhynchus mychiss - 56d
Chronic NOEC for Crustacea	1,57 mg/l daphnia - 21d

HYDROCARBONS, C9, AROMATICS

LC50 - for Fish	9,2 mg/l oncorhynchus mykiss
EC50 - for Crustacea	3,2 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	2,9 mg/l/72h pseudokirchneriella subcapitata

REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE (BENZENE <0,01%)

LC50 - for Fish	2,6 mg/l/96h salmo gairdneri
-----------------	------------------------------

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish	> 100 mg/l/96h oryzias latipes
EC50 - for Crustacea	> 500 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h pseudokirchneriella subcapitata

2-ETHYLHEXANOIC ACID, ZIRCONIUM SALT

LC50 - for Fish	> 100 mg/l/96h Danio rerio
EC50 - for Algae / Aquatic Plants	49,3 mg/l/72h Desmodesmus subspicatus

TOLUENE

LC50 - for Fish	5,5 mg/l/96h pimephales promelas
EC50 - for Crustacea	3,78 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	12,5 mg/l/72h pseudokirchneriella subcapitata

2-BUTOXYETHANOL

LC50 - for Fish	1474 mg/l/96h oncorhynchus mykiss
EC50 - for Crustacea	1550 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	911 mg/l/72h pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 100 mg/l brachydanio rerio - 21 d

METHYL ETHYL KETONE

LC50 - for Fish	2993 mg/l/96h pimephales promelas
EC50 - for Crustacea	308 mg/l/48h daphnia magna

2-BUTANONE OXIME

LC50 - for Fish	> 100 mg/l/96h oryzias latipes
EC50 - for Crustacea	201 mg/l/48h daphnia magna
EC50 - for Algae / Aquatic Plants	11,8 mg/l/72h

12.2. Persistence and degradability

BARIUM SULFATE

Solubility in water	0,1 - 100 mg/l
Degradability: information not available	

HYDROCARBONS, C9, AROMATICS

Rapidly degradable

REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE (BENZENE <0,01%)

Rapidly degradable

SINTOMAK SMALTO R.E. LUCIDO S. 15300**SECTION 12. Ecological information ... / >>****2-METHOXY-1-METHYLETHYL ACETATE**

Solubility in water > 10000 mg/l

Rapidly degradable

2-ETHYLHEXANOIC ACID, ZIRCONIUM SALT

Solubility in water < 0,1 mg/l

Rapidly degradable

TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

METHYL ETHYL KETONE

Solubility in water > 10000 mg/l

Rapidly degradable

2-BUTANONE OXIME

Solubility in water 1000 - 10000 mg/l

Entirely degradable

12.3. Bioaccumulative potential**REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE (BENZENE <0,01%)**

Partition coefficient: n-octanol/water 3,15 Log Kow

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2

BCF 1

TOLUENE

Partition coefficient: n-octanol/water 2,73

BCF 90

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

METHYL ETHYL KETONE

Partition coefficient: n-octanol/water 0,3

2-BUTANONE OXIME

Partition coefficient: n-octanol/water 0,63

BCF 0,5

12.4. Mobility in soil**2-BUTANONE OXIME**

Partition coefficient: soil/water 0,55

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

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

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

SECTION 13. Disposal considerations ... / >>

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information**14.1. UN number**

ADR / RID, IMDG, IATA: 1263

14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL

IMDG: PAINT or PAINT RELATED MATERIAL

IATA: PAINT or PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for userADR / RID: HIN - Kemler: 30
Special Provision: -

IMDG: EMS: F-E, S-E

IATA: Cargo:

Pass.:

Special Instructions:

Limited Quantities: 5 L

Limited Quantities: 5 L

Maximum quantity: 220 L

Maximum quantity: 60 L

A3, A72, A192

Tunnel restriction code: (D/E)

Packaging instructions: 366

Packaging instructions: 355

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

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/EC: 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 48 TOLUENE

Reg. no.: 01-2119471310-51

Substances in Candidate List (Art. 59 REACH)

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

SINTOMAK SMALTO R.E. LUCIDO S. 15300**SECTION 15. Regulatory information ... / >>**Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

NC = sostanze scarsamente volatili non presenti nelle tabelle del D.Lgs. 152/2006 e successive modifiche; tali sostanze non sono comunque assimilabili ad alcuna tabella/classe dello stesso decreto così come modificato.

15.2. Chemical safety assessment

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

XYLENE (MIXTURE OF ISOMERS)

HYDROCARBONS, C9, AROMATICS

2-BUTANONE OXIME

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
Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, 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.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
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.
H318	Causes serious eye damage.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

SECTION 16. Other information ... / >>

- CAS NUMBER: Chemical Abstract Service Number - CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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- INRS - Fiche Toxicologique (toxicological sheet)
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- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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