

35750000099 - MS 2 PART PRIMER comp. B

Dated 06/06/2022 Printed on 27/09/2022
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Replaced revision:12 (Dated 10/09/2020)

Safety Data Sheet

According to Annex II to REACH - Regulation 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: 35750000099

Product name MS 2 PART PRIMER comp. B

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

Intended use Polyurethane coating

1.3. Details of the supplier of the safety data sheet

Liquid Roofing Systems LTD

Roofing House, Prees Green, Whitchurch, Shropshire, SY13 2BN Full address

District and Country

01948841877 Tel. e-mail address of the competent person

responsible for the Safety Data Sheet technical@lrs-systems.co.uk

1.4. Emergency telephone number

For urgent inquiries refer to **United Kingdom**

999/112 emergency

111 non-emergency medical number

NHS 111 (England) NHS 24 (Scotland) **NHS Direct (Wales)**

National Poisons Information Centre, Beaumont Hospital, PO Box 1297, Beaumont

Road, Dublin 9 018092166 018092566

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

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

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Specific target organ toxicity - repeated exposure,	H373	May cause damage to organs through prolonged or
category 2		repeated exposure.
Skin corrosion, category 1C	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure,	H336	May cause drowsiness or dizziness.
category 3		
Hazardous to the aquatic environment, chronic	H411	Toxic to aquatic life with long lasting effects.
toxicity, category 2		



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SECTION 2. Hazards identification .../>>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:











Signal words: Danger

Hazard statements:

H225 Highly flammable liquid and vapour. H361d Suspected of damaging the unborn child. H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P303+P361+P353

P280

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

Contains:

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY

ACIDS AND TRIETHYLENETETRAMINE 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

OILS, PINE

3-AMINOPROPYLTRIETHOXYSILANE

ISOPROPANOL

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant



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SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND

TRIETHYLENETETRAMINE

68082-29-1 CAS $45 \le x < 47.5$ Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2

EC 500-191-5

INDEX

REACH Reg. 01-2119972320-44

ISOPROPANOL

CAS 67-63-0 $21 \le x < 22,5$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

EC 200-661-7 INDEX 603-117-00-0 REACH Reg. 01-2119457558-25

TOI UENE

CAS 108-88-3 $15 \le x < 16.5$ 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 INDFX 601-021-00-3 REACH Reg. 01-2119471310-51

ETHANOL

CAS 64-17-5 $4 \le x < 4.5$ Flam. Liq. 2 H225, Eye Irrit. 2 H319

FC 200-578-6 **INDEX** 603-002-00-5 REACH Reg. 01-2119457610-43

OILS, PINE

Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 CAS 8002-09-3 $4 \le x < 4.5$

H400 M=1, Aquatic Chronic 1 H410 M=1

EC INDEX

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318 CAS 90-72-2 $3,5 \le x < 4$

STA Oral: 500 mg/kg FC 202-013-9 **INDEX** 603-069-00-0

REACH Reg. 01-2119560597-27

ETHYL ACETATE

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 141-78-6 $1.5 \le x < 2$ CAS

EC 205-500-4 INDEX 607-022-00-5 REACH Reg. 01-2119475103-46 3-AMINOPROPYLTRIETHOXYSILANE

CAS 919-30-2 $1 \le x < 1,5$ Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317

FC LD50 Oral: 1491 mg/kg 213-048-4

INDFX 612-108-00-0 REACH Reg. 01-2119480479-24

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION

Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 CAS 90640-67-8 $0.5 \le x < 0.6$

H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412 LD50 Oral: 1716 mg/kg, LD50 Dermal: 1465 mg/kg

FC 292-588-2

INDFX

REACH Reg. 01-2119487919-13

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

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

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.



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SECTION 4. First aid measures .../>>

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

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

5.3. Advice for firefighters

GENERAL INFORMATION

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

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

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

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous



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SECTION 7. Handling and storage .../>>

stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

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
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
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
		HÄLSOVÅRDSMINISTERIETS 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 μεταλλαξιγόνους παράγοντες κατά την εργασία"»
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama
		na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 "cheminių medžiagų profesinio poveikio
		ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai" patvirtinimo
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 szkodliwychdla
		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
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
		rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení
		neskorších predpisov
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU)
		2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive
		2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive
	TIV ACCIUI	91/322/EEC.
	TLV-ACGIH	ACGIH 2021



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SECTION 8. Exposure controls/personal protection

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				ISOP	ROPANOL				
reshold Limit \									
Type	Country	TWA/8h		STEL/15		Remarks / Obs	ervations		
AGW	DEU	mg/m3 500	ppm 200	mg/m3 1000	ppm 400				
MAK	DEU	500	200		400				
				1000					
VLA	ESP	500	200	1000	400				
VLEP	FRA			980	400				
TLV	GRC	980	400	1225	500				
GVI/KGVI	HRV	999	400	1250	500				
RD	LTU	350	150	600	250				
TGG	NLD	650							
NDS/NDSCh	POL	900		1200		SKIN			
TLV	ROU	200	81	500	203				
NPEL	SVK	500	200	1000	400				
WEL	GBR	999	400	1250	500				
TLV-ACGIH		492	200	983	400				
edicted no-effe	ct concentra	ation - PNEC	;						
Normal value in	n fresh water						140,9	mg/l	
Normal value in	n marine wate	er					140,9	mg/l	
Normal value for	or fresh wate	r sediment					552	mg/kg	
Normal value for	or marine wa	ter sediment					552	mg/kg	
Normal value o							2251	mg/l	
Normal value for			arv noisonin	7)			160	mg/kg	
Normal value for				9)			28	mg/kg	
ealth - Derived r							20	mg/kg	
saitii - Deriveu i		ects on consu				Effects on worke	re		
Route of expos				Chronic	Chronic	Acute	Acute	Chronic	Chronic
Noute of expos									
Inhalation	loca	u Sys	temic	local	systemic	local	systemic	local	systemic
mnalation									500
OL:									mg/m3
Skin									888
									mg/kg
									bw/d



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	/-1			Т	OLUENE				
reshold Limit \									
Type	Country	TWA/8h				Remarks /	Observations		
		mg/m3	ppm						
AGW	DEU	190	50	760	200	SKIN			
MAK	DEU	190	50	760	200	SKIN			
VLA	ESP	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				
GVI/KGVI	HRV	192	50	384	100	SKIN			
VLEP	ITA	192	50			SKIN			
RD	LTU	192	50	384	100	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			
NPEL	SVK	192	50	384	100	SKIN			
WEL	GBR	191	50	384	100	SKIN			
OEL	EU	192	50	384	100	SKIN			
TLV-ACGIH			20						
edicted no-effe	ct concent ra	ation - PNEC	;						
Normal value in	fresh water						0,68	mg/l	
Normal value in	n marine wate	er					0,68	mg/l	
Normal value for	or fresh water	sediment					16,39	mg/kg	
Normal value for	or marine wat	er sediment					16,39	mg/kg	
Normal value o	f STP microo	rganisms					13,61	mg/l	
Normal value for	or the terrestr	ial compartm	ent				2,89	mg/kg	
	Fffe	ects on consu	ımers			Effects on wo	orkers		
Route of expos				Chronic	Chronic	Acute	Acute	Chronic	Chronic
Inhalation						384	384	192	192
minalation						mg/m3	mg/m3	mg/m3	mg/m3
Skin									384 mg/kg bw/d



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SECTION 8. Exposure controls/personal protection

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				E.	THANOL				
reshold Limit V									
Type	Country	TWA/8h				Remarks /	Observations		
		mg/m3	ppm						
AGW	DEU	380	200	1520	800				
MAK	DEU	380	200	1520	800				
VLA	ESP			1910	1000				
VLEP	FRA	1900	1000	9500	5000				
HTP	FIN	1900	1000	2500	1300				
TLV	GRC	1900	1000						
GVI/KGVI	HRV	1900	1000						
RD	LTU	1000	500	1900	1000				
TGG	NLD	260		1900		SKIN			
NDS/NDSCh	POL	1900							
TLV	ROU	1900	1000	9500	5000				
NPEL	SVK	960	500	1920	1000				
WEL	GBR	1920	1000						
TLV-ACGIH				1884	1000				
	ct concentr	ation - PNEC		1884	1000				
TLV-ACGIH		ation - PNEC	:	1884	1000		0,96	mg/l	
TLV-ACGIH edicted no-effe	fresh water		•	1884	1000			mg/l mg/l	
TLV-ACGIH edicted no-effeo Normal value in	fresh water marine wate	er	:	1884	1000		0,79	mg/l	
TLV-ACGIH cdicted no-effect Normal value in Normal value in	fresh water marine wate or fresh wate	er r sediment		1884	1000		0,79 3,6	mg/l mg/kg	
TLV-ACGIH Idicted no-effer Normal value in Normal value in Normal value fo Normal value fo	n fresh water n marine wate or fresh wate or marine wa	er r sediment ter sediment		1884	1000		0,79 3,6 2,9	mg/l mg/kg mg/kg	
TLV-ACGIH edicted no-effet Normal value in Normal value in Normal value fo Normal value fo Normal value fo	fresh water marine wate or fresh wate or marine wa f STP microc	er r sediment ter sediment organisms			1000		0,79 3,6 2,9 580	mg/l mg/kg mg/kg mg/l	
TLV-ACGIH edicted no-effee Normal value in Normal value in Normal value fo Normal value fo Normal value o Normal value o Normal value o	of fresh water of marine water or fresh water or marine water of STP microcont the food ch	er r sediment ter sediment organisms nain (second	ary poisonin		1000		0,79 3,6 2,9 580 380	mg/l mg/kg mg/kg mg/l mg/kg	
TLV-ACGIH edicted no-effet Normal value in Normal value in Normal value fo Normal value fo Normal value fo	of fresh water of marine water or fresh water or marine water of STP microcopt the food chorthe terresti	er r sediment ter sediment organisms nain (secondi rial compartm	ary poisonin		1000		0,79 3,6 2,9 580	mg/l mg/kg mg/kg mg/l	
TLV-ACGIH edicted no-effet Normal value in Normal value fo Normal value fo Normal value fo Normal value o Normal value o Normal value fo	of fresh water n marine wate or fresh wate or marine wa f STP microcor or the food ch or the terrestr or the atmosp	er r sediment ter sediment organisms nain (secondi rial compartm	ary poisonin		1000	Effects on w	0,79 3,6 2,9 580 380 0,63 NPI	mg/l mg/kg mg/kg mg/l mg/kg	
TLV-ACGIH edicted no-effet Normal value in Normal value fo Normal value fo Normal value fo Normal value o Normal value o Normal value fo	of fresh water of marine water or fresh water or marine water of STP microoper the food choor the terrestrong or the atmosp	er r sediment ter sediment organisms nain (seconda rial compartm othere ects on consu	ary poisonin		1000 Chronic	Effects on w Acute	0,79 3,6 2,9 580 380 0,63 NPI	mg/l mg/kg mg/kg mg/l mg/kg	Chronic
TLV-ACGIH edicted no-effet Normal value in Normal value in Normal value fo Normal value of Normal value of Normal value fo	of fresh water of marine water or fresh water or marine water of STP microoper the food choor the terrestrong or the atmosp	er r sediment ter sediment organisms nain (seconda rial compartm othere ects on consu	ary poisonin	g)		Acute	0,79 3,6 2,9 580 380 0,63 NPI orkers Acute	mg/l mg/kg mg/kg mg/l mg/kg mg/kg	
TLV-ACGIH edicted no-effet Normal value in Normal value in Normal value fo Normal value fo Normal value o Normal value fo Normal value fo Normal value fo Normal value fo	of fresh water of marine water or fresh water or marine water of STP microoper the food choor the terrestrong or the atmosp	er r sediment ter sediment organisms nain (seconda rial compartm othere ects on consu	ary poisonin	g)			0,79 3,6 2,9 580 380 0,63 NPI	mg/l mg/kg mg/kg mg/l mg/kg mg/kg	Chronic 950 mg/m3
TLV-ACGIH edicted no-effet Normal value in Normal value in Normal value fo Normal value of Normal value of Normal value fo	of fresh water of marine water or fresh water or marine water of STP microoper the food choor the terrestrong or the atmosp	er r sediment ter sediment organisms nain (seconda rial compartm othere ects on consu	ary poisonin	g)		Acute	0,79 3,6 2,9 580 380 0,63 NPI orkers Acute	mg/l mg/kg mg/kg mg/l mg/kg mg/kg	950



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				ETHYL	ACETATE				
reshold Limit \									
Type	Country	TWA/8h				Remarks /	Observations		
		mg/m3	ppm						
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	734	200	1468	400				
HTP	FIN	730	200	1470	400				
TLV	GRC	734	200	1468	400				
GVI/KGVI	HRV	734	200	1468	400				
VLEP	ITA	734	200	1468	400				
RD	LTU	500	150	1100 (C)	300 (C)				
TGG	NLD	734		1468					
VLE	PRT	734	200	1468	400				
NDS/NDSCh	POL	734		1468					
TLV	ROU	734	200	1468	400				
NPEL	SVK	734	200	1468	400				
WEL	GBR	734	200	1468	400				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
edicted no-effe	ct concent ra	ation - PNE	;						
Normal value in	fresh water						0,24	mg/l	
Normal value in	n marine wate	er					0,024	mg/l	
Normal value for	or fresh water	r sediment					1.15	mg/kg	
Normal value for	or marine wa	ter sediment					0,115	mg/kg	
Normal value of	f STP microc	rganisms					650	mg/l	
Normal value for			nent				0,148	mg/kg	
	Effe	ects on consu	ımers			Effects on wo	orkers		
Route of expos	ure Acu	te Ac	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
Inhalation						1468	1468	734	734
minalation						mg/m3	mg/m3	734 mg/m3	7 <i>3</i> 4 mg/m3
Skin									63 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.

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 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



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Information

Method:Closed cup

Temperature: 20 °C

Temperature: 20 °C

SECTION 8. Exposure controls/personal protection

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 Appearance liquid Colour straw-coloured Odour ammoniacal Melting point / freezing point not available Initial boiling point $^{\circ}$ C 75 Flammability not applicable Lower explosive limit not available Upper explosive limit not available Flash point °C

not available Auto-ignition temperature Decomposition temperature not available not applicable 70 mPa*s Kinematic viscosity

70 mPa*s Dynamic viscosity insoluble in water Solubility Partition coefficient: n-octanol/water not applicable Vapour pressure not available

Density and/or relative density 0,92 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

Total solids (250°C / 482°F) 51,82 %

46,70 % - 429,68 VOC (Directive 2010/75/EU) g/litre 32,68 % -VOC (volatile carbon) 300,63 g/litre

Explosive properties not expected Oxidising properties not expected

SECTION 10. Stability and reactivity

10.1. Reactivity

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

TOLUENE

Avoid exposure to: light.

ETHYL ACETATE

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.



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

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.

ETHANOL

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide. May react dangerously with: bromoacetylene,chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

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

10.4. Conditions to avoid

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

FTHANOL

Avoid exposure to: sources of heat,naked flames.

ETHYL ACETATE

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

10.5. Incompatible materials

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Avoid contact with: acids,oxidising agents.

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

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.

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

In decomposition develops: carbon oxides, nitric oxide, ammonia, nitric acid.

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

Information not available

Information on likely routes of exposure

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

TOI UFNE

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

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

FPY 11 2 0 - SDS 1004 14



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ISOPROPANOL

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

TOLUENE

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

ETHANOL

LD50 (Oral): > 5000 mg/kg Rat LC50 (Inhalation vapours): 117 mg/l/4h Rat

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

2169 mg/kg OECD Guideline 401, Rat - Sprague-Dawley LD50 (Oral): STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

3-AMINOPROPYLTRIETHOXYSILANE

LD50 (Dermal): 4076 mg/kg EPA OTS 798.1100, Rabbit, New Zealand White, 4.29 mL/kg LD50 (Oral): 1491 mg/kg EPA OTS 798.1175, Rat - Sprague-Dawley, 1,57 mL/kg

LC50 (Inhalation mists/powders): > 5 ppm/4h OECD Guideline 403, Rat - Wistar

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION

LD50 (Dermal): 1465 mg/kg OECD Guideline 402, Rabbit LD50 (Oral): 1716 mg/kg OECD Guideline 401, Rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL OECD Guideline 404, Rabbit - New Zealand White

3-AMINOPROPYLTRIETHOXYSILANE OECD Guideline 404

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

3-AMINOPROPYLTRIETHOXYSILANE OECD Guideline 405

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

3-AMINOPROPYLTRIETHOXYSILANE OECD Guideline 406

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,



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The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

May cause damage to organs

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Toxic for aspiration

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND

TRIETHYLENETETRAMINE

7,07 mg/l/96h OECD Guideline 203, Danio rerio LC50 - for Fish EC50 - for Crustacea 7,07 mg/l/48h OECD Guideline 202, Daphnia magna

EC50 - for Algae / Aquatic Plants 4,34 mg/l/72h OECD Guideline 201, Pseudokirchneriella subcapitata

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION

330 mg/l/96h U.S EPA-TSCA, 40 CFR Part 797 1400, Pimephales promelas LC50 - for Fish

31,1 mg/l/48h EU Method C.2, Daphnia magna EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants 20 mg/l/72h OECD Guideline 201, Pseudokirchneriella subcapitata



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SECTION 12. Ecological information .../>>

TOLUENE

LC50 - for Fish 5,5 mg/l/96h EC50 - for Crustacea 3,78 mg/l/48h EC50 - for Algae / Aquatic Plants 134 mg/l/72h

12.2. Persistence and degradability

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND

TRIETHYLENETETRAMINE

Solubility in water 40 mg/l Calcolo

TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

ETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Solubility in water > 10000 mg/l

NOT rapidly degradable

ISOPROPANOL Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS AND

TRIETHYLENETETRAMINE

Partition coefficient: n-octanol/water 10,34 Log Kow Calcolo con EPI Suite

TOLUENE

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

FTHANOL

Partition coefficient: n-octanol/water -0,35

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL

Partition coefficient: n-octanol/water -0,66

ISOPROPANOL

Partition coefficient: n-octanol/water 0,05

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 **BCF**

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. 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.



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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 PACKÁGING

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: 2924

14.2. UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL) ADR / RID: IMDG:

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL;

FATTY ACIDS, C18-UNSATURATED, DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY

ACIDS AND TRIETHYLENETETRAMINE)

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL; 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL) IATA:

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3 (8)

IMDG: Class: 3 Label: 3 (8)

IATA: Class: 3 Label: 3 (8)



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

Marine Pollutant IMDG:

IATA: NO

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



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SECTION 14. Transport information .../>>

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 338 Limited Quantities: 1 L Tunnel restriction code: (D/E)

> Special provision: -EMS: F-E, S-C Limited Quantities: 1 L

IATA: Cargo: Maximum quantity: 5 L Packaging instructions: 363 Pass.: Maximum quantity: 1 L Packaging instructions: 352

Special provision:

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-E2

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

Product

IMDG:

Point 3 - 40

Contained substance

Point 75

Point 48 **TOLUENE**

REACH Reg.: 01-2119471310-51

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:

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

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

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flammable liquid, category 2 Flam. Liq. 2 Repr. 2 Reproductive toxicity, category 2 Acute Tox. 4 Acute toxicity, category 4 Asp. Tox. 1 Aspiration hazard, category 1

STOT RF 2 Specific target organ toxicity - repeated exposure, category 2

Skin Corr. 1B Skin corrosion, category 1B Skin Corr. 1C Skin corrosion, category 1C Eye Dam. 1 Serious eye damage, category 1 Skin Sens. 1 Skin sensitization, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3 **Aquatic Acute 1** Hazardous to the aquatic environment, acute toxicity, category 1

ΕN



LIQUID ROOFING SYSTEMS

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SECTION 16. Other information .../>>

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1 **Aquatic Chronic 2** Hazardous to the aquatic environment, chronic toxicity, category 2

H225 Highly flammable liquid and vapour. H361d Suspected of damaging the unborn child.

Harmful if swallowed. H302 Harmful in contact with skin. H312

H304 May be fatal if swallowed and enters airways.

H373 May cause damage to organs through prolonged or repeated exposure.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects. H410 H411 Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic 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
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)



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- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified: 01/02/03/08/09/10/11/12/15/16.