

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0008

Revision date / version: 17.1.2021 / 00007 Replacing version dated / version: 17.05.2019 / 0007 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO SP-712.110

(COSMOFEN RM Fluid)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

COSMO SP-712.110

(COSMOFEN RM Fluid)

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

Relevant identified uses of the substance or mixture:

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2 35708 Haiger

Tel: +49 (0) 2773 / 815-0 msds@weiss-chemie.de www.weiss-chemie.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC) +1 872 5888271 (WIC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement Flam. Liq.

H225-Highly flammable liquid and vapour. STOT SE H335-May cause respiratory irritation. Skin Irrit. 2 H315-Causes skin irritation

Skin Sens H317-May cause an allergic skin reaction.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)





H225-Highly flammable liquid and vapour. H335-May cause respiratory irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P280-Wear protective gloves. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312-Call a POISON CENTRE / doctor if you feel unwell. P403+P235-Store in a well-ventilated place. Keep cool.

Methyl methacrylate

2.3 Other hazards

2.3 OTHER NAZATOS

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Methyl methacrylate	Substance for which an EU exposure limit value applies.			
Registration number (REACH)	01-2119452498-28-XXXX			
Index	607-035-00-6			
EINECS, ELINCS, NLP, REACH-IT List-No.	201-297-1			
CAS	80-62-6			
content %	50-<100			
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 2, H225			
(CLP), M-factors	Skin Irrit. 2, H315			
	Skin Sens. 1, H317			
	STOT SE 3 H335			

N,N-dimethyl-p-toluidine	
Registration number (REACH)	
Index	612-056-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	202-805-4
CAS	99-97-8
content %	1-<5
Classification according to Regulation (EC) 1272/2008	Acute Tox. 3, H331
(CLP), M-factors	Acute Tox. 3, H311
•	Acute Tox. 3, H301
	STOT RE 2, H373
	Aquatic Chronic 3, H412

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Dab away with polyethylene glycol 400
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. In certain cases, the sym
The following may occur:
Discoloration of the skin

Methhaemoglobin formation

4.3 Indication of any immediate medical attention and special treatment needed If skin, lips or finger nails are discoloured, perform artificial respiration with oxygen

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO2 Extinction powder

Water jet spray

Alcohol resistant foam

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can dev

Oxides of carbon

5.3 Advice for firefightersFor personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Recording to size of the Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary. Keep non-essential personnel away.

Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

6.1.2 For emergency respondersSee section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities

If accidental entry into drainage system occurs, inform responsions as the first of the first occurs occurs on the first occurs occurs occurs occurs on the first occurs occurs on the first occurs occurs on the first occurs occurs occurs on the first occurs occurs occurs occurs occurs occurs occurs on the first occurs occur Soak up with absorbent material (e.g. universal binding agent, sand, diato according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage



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In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid inhalation of the vapours.

Avoid inflatation or the exposer. Ensure good ventilation. If applicable, suction measures at the workstation or on the processing machine necessary. Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charging, if appropriate.

Avoid contact with eyes or skin.

Handle and open container with care.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Only fill tanks up to approx. 80% because oxygen (air) is required for stabilisation. Protect from direct sunlight and warming.

Store cool.

Store in a dry place.

7.3 Specific end use(s)

Resin

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(GB)	Chemical Name	Methyl me	thacrylate			Content
100		,				%:50-
						<100
WE	L-TWA: 50 ppm (208 mg	g/m3)	WEL-STEL: 100 ppm	(416 mg/m3)		
(WE	EL), 50 ppm (EU)		(WEL), 100 ppm (EU)			
Mor	nitoring procedures:	-	Compur - KITA-184 S (548	3 618)		
			NIOSH 2537 (Methyl and e	ethyl metacrylate) -	2003 - EU	project
		-	BC/CEN/ENTR/000/2002-	16 card 109-2 (200-	4)	
		-	OSHA 94 (Methyl Methacr	ylate) - 1992		
BM	GV:			Other information	n:	

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental compartment	health	ptor	е		
	Environment - freshwater		PNEC	0,94	mg/l	
	Environment - marine		PNEC	0,09 4	mg/l	
	Environment - sediment		PNEC	5,74	mg/kg	
	Environment - soil		PNEC	1,47	mg/kg	
	Environment - sewage treatment plant		PNEC	10	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	105	mg/m3	
Consumer	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm 2	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	74,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	8,2	mg/kg bw/day	
Consumer	Human - oral	Long term, local effects	DNEL	1,5	mg/cm 2	
Industrial / commercial	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm 2	
Industrial / commercial	Human - inhalation	Long term, local effects	DNEL	208	mg/m3	
Industrial / commercial	Human - inhalation	Long term, systemic effects	DNEL	208	mg/m3	
Industrial / commercial	Human - dermal	Long term, systemic effects	DNEL	13,6 7	mg/kg	
Industrial / commercial	Human - dermal	Short term, local effects	DNEL	1,5	mg/cm 2	

N,N-dimethyl-p-toluid	N,N-dimethyl-p-toluidine										
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note					
	Environmental	health	ptor	e							
	compartment										
	Environment -		PNEC	0,13	mg/l						
	water, sporadic			7							
	(intermittent) release										
	Environment -		PNEC	0,01	mg/l						
	freshwater			4							
	Environment -		PNEC	0,00	mg/l						
	marine			1							
	Environment -		PNEC	48,2	mg/kg						
	sediment, freshwater			45							
	Environment -		PNEC	48,2	mg/kg						
	sediment, marine			45							
	Environment -		PNEC	1,36	mg/l						
	sewage treatment										
	plant										

	Environment - soil		PNEC	20,3 65	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,30 2	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,34 7	mg/kg body weight/ day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,17 4	mg/kg body weight/ day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1,22 4	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,69 4	mg/kg body weight/ day	

(GB) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE), (11) = Inhalable fraction (Directive 2004/37/CE), (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute

(Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). BIMGV = Biological monitoring guidance value E14-0. BGW = 'Biologischer Grenzwert' (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2.1 Appropriate engineering controls

8.2 Exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents"

8.2.2 Individual protection measures, such as personal protective equipment General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN ISO 374). Recommended

Protective gloves in butyl rubber (EN ISO 374).
Minimum layer thickness in mm:

>= 0,7
Permeation time (penetration time) in minutes:

>= 60

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical

conditions.
The recommended maximum wearing time is 50% of breakthrough time.

With short-term contact: Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective hand cream recommended

Skin protection - Other:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:
If OES or MEL is exceeded.
Gas mask filter A (EN 14387), code colour brown
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications

Final selection of flow material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and

varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested

before use

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

Decomposition temperature:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour: Liquid Odour: Ester Melting point/freezing point: -48 °C

Relating point or initial boiling point and boiling range: Flammability:
Lower explosion limit:

~100 °C Flammable 2,1 Vol-% (Methyl methacrylate) 12,5 Vol-% (Methyl methacrylate) ~10 °C (DIN 51755 (Abel-Pensky, closed cup), Upper explosion limit: Flash point:

Auto-ignition temperature:

Methyl methacrylate)
430 °C (DIN 51794, Methyl methacrylate)
There is no information available on this parameter.



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Kinematic viscosity: Solubility: Partition coefficient n-octanol/water (log value):

Vapour pressure:
Density and/or relative density:
Relative vapour density:
Particle characteristics:

9.2 Other information Explosives:

Oxidising liquids: Bulk density:

2 mPas (23°C, Dynamic viscosity) ~10 g/l (20°C) Does not apply to mixtures. <40 mbar

~0,95 g/cm3 (20°C) >1 (20°C) Does not apply to liquids.

Product is not explosive. When using: development of explosive vapour/air mixture possible. No n.a.

SECTION 10: Stability and reactivity

10.1 ReactivityThe product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
Polymerisation possible with:
Radical former (Initiators)

Peroxides Heavy metal salts

Methyl methacrylate

10.4 Conditions to avoid

Heating, open flame, ignition sources Electrostatic charge

10.5 Incompatible materials
Avoid contact with strong oxidizing agents.
Avoid contact with strong alkalis. Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Possibly more information on health effects, see Section 2.1 (classification). COSMO SP-712.110

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral	ATE	>2000	mg/k			calculated
route:			g			value
Acute toxicity, by	ATE	>2000	mg/k			calculated
dermal route:			g			value
Acute toxicity, by	ATE	>20	mg/l/			calculated
inhalation:			4h			value,
						Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell						n.d.a.
mutagenicity:						
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>6000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	29,8	mg/l/ 4h	Rat		Vapours
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Mild irritan
Respiratory or skin sensitisation:				Human being		Skin Sens 1
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAE L	2000	ppm	Rat		
Aspiration hazard:						No indications of such an effect.

Symptoms:					breathing
					difficulties,
					respiratory
					distress,
					drowsiness
					, drop in
					blood
					pressure,
					coughing,
					headaches,
					fatigue,
					mucous membrane
					irritation,
					watering
					eyes,
					mental
					confusion
Specific target organ	NOAE	1000	ppm	Mouse	14w, 6h/d,
toxicity - repeated	L		l '''		5d/w
exposure (STOT-RE),					
inhalat.:	I		l	1	

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritan
Respiratory or skin sensitisation:					·	Not sensitizisi g
Symptoms:						respirator distress, drop in blood pressure, disturbed heart rhythm, coughing, headache cramps, gastrointe inal disturband s, mucous membran irritation, dizziness, nausea and

11.2. Information on other hazards

COSMO SP-712.110

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Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Endocrine disrupting						Does not
properties:						apply to
						mixtures.
Other information:						No other
						relevant
						information
						available
						on adverse
						effects on
						health.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification). COSMO SP-712.110

(COSMOFEN RM Fluid)

(COSMOFEN RM							
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2.							n.d.a.
Persistence and							
degradability:							
12.3.							n.d.a.
Bioaccumulative							
potential:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							
assessment							
12.6. Endocrine							Does not
disrupting							apply to
properties:							mixtures.
12.7. Other							No
adverse effects:							information
							available
							on other
							adverse
							effects on
							the
							environmen
							t.
					•		

Methyl methacrylate							
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
	_	_	-				



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(000110121111111							
12.1. Toxicity to fish:	LC50	96h	130	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to algae:	EC50	72h	>11 0	mg/l	Pseudokirch neriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	37	mg/l	Selenastrum capricornut um	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:		7d	37	mg/l	Scenedesm us quadricauda		
12.2. Persistence and degradability:		28d	>95	%		OECD 302 B (Inherent Biodegradab ility - Zahn- Wellens/EM PA Test)	Readily biodegrada ble
12.3. Bioaccumulative potential:	Log Pow		1,32 -1,3 8			OECD 107 (Partition Coefficient (n- octanol/wate r) - Shake Flask Method)	A notable biological accumulati on potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

N,N-dimethyl-p-toluidine							
Toxicity / effect	Endpoin	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to algae:	ErC50	96h	15,4 81	mg/l	Chlorella vulgaris		
12.1. Toxicity to daphnia:	EC50	48h	15,2 59	mg/l	Daphnia magna		
12.1. Toxicity to fish:	LC50	96h	100	mg/l	Brachydanio rerio		
12.1. Toxicity to fish:	LC50	96h	46	mg/l	Pimephales promelas		
12.2. Persistence and degradability:	BOD		5	%			Hardly biodegrada ble, References
12.3. Bioaccumulative potential:	Log Pow		1,73 -2,8 1				Low
12.4. Mobility in soil:							No adsorption in soil.
12.5. Results of PBT and vPvB assessment							No PBT substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 07 02 08 other still bottoms and reaction residues 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Recommengation.
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
E.g. suitable incineration plant.

For contaminated packing material Pay attention to local and national official regulat Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number or ID number

Transport by road/by rail (ADR/RID)
14.2. UN proper shipping name:
UN 1247 METHYL METHACRYLATE MONOMER, INHIBITED
14.3. Transport hazard class(es):
3

14.4. Packing group: Classification code: LQ: 14.5. Environmental hazards: Not applicable Tunnel restriction code: D/E

Transport by sea (IMDG-code)

14.2. UN proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED 14.3. Transport hazard class(es): 14.4. Packing group:

.. F-E, S-D

Marine Pollutant:

n.a Not applicable 14.5. Environmental hazards

Transport by air (IATA)

14.2. UN proper shipping name: Methyl methacrylate monomer, stabilized

14.3. Transport hazard class(es): 14.4. Packing group: 14.5. Environmental hazards:

Not applicable

14.6. Special precautions for user
Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.

SECTION 15: Regulatory information

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

Coserive restrictions.

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories

Notes to Annex I
Qualifying quantity
(tonnes) of dangerous
(tonnes) of dangerous Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for substances as referred to in Article 3(10) for P5c | S000 | The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, the application of -Upper-tier requirements 50000

must be taken into account when assigning categories and qualifying quantities

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures

SECTION 16: Other information

Revised sections:

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with	Evaluation method used
regulation (EC) No. 1272/2008 (CLP)	
Flam. Liq. 2, H225	Classification based on test data.
STOT SE 3, H335	Classification according to calculation
	procedure.
Skin Irrit. 2, H315	Classification according to calculation
	procedure.
Skin Sens. 1, H317	Classification according to calculation
	procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin.

H315 Causes skin irritation

H317 May cause an allergic skin reaction. H331 Toxic if inhaled.

H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation

Skin Irrit. — Skin Irritation
Skin Sens. — Skin sensitization
Acute Tox. — Acute toxicity - inhalation
Acute Tox. — Acute toxicity - dermal
Acute Tox. — Acute toxicity - oral
STOT RE — Specific target organ toxicity - repeated exposure
Aquatic Chronic — Hazardous to the aquatic environment - chronic

Key literature references and sources

amended

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA)

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended

Guidelines on labelling and packaging according to the Log-Level (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

(Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to



Page 5 of 5 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0008 Revision date / version: 17.1.2021 / 00007 Replacing version dated / version: 17.05.2019 / 0007 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO SP-712.110 (COSMOFEN RM Fluid) ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds approx. approximately
Art., Art. no.Article number ART., A ASTM ATE BAM ASTM International (American Society for Testing and Materials)
Acute Toxicity Estimate
Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health BAuA and Safety, Germany)
BCF Bioconcentration factor BSEF The International Bromine Council body weight Chemical Abstracts Service bw CAS Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level DNEL DOC Derived No Effect Level Dissolved organic carbon dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances European Norms EPA United States Environmental Protection Agency (United States of America) ErCx, EµCx, ErLx (x = 10, 50) (algae, plants) Effect Concentration/Level of x % on inhibition of the growth rate et cetera European Union etc. EU **EVAL** Ethylene-vinyl alcohol copolymer Fax. Fax number general
Globally Harmonized System of Classification and Labelling of Chemicals gen. GHS Globally Harmonized System of Classification and Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient International Agency for Research on Cancer International Air Transport Association International Bulk Chemical (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods including inclusive GWP incl. IUCLID including, inclusive International Uniform Chemical Information Database International Unitorm Chemical Information Database
International Union for Pure Applied Chemistry
Lethal Concentration to 50 % of a test population
Lethal Dose to 50% of a test population (Median Lethal Dose)
Logarithm of adsorption coefficient of organic carbon in the soil
og Pow Logarithm of octanol-water partition coefficient IUPAC LC50 LD50 Log Koc Log Kow, Log Pow Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable not available n.a. n.av. n.c. not checked n.d.a. NIOSH no data available National Institute for Occupational Safety and Health (USA) NULP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development org. OSHA organic Occupational Safety and Health Administration (USA) Persistent, bioaccumulative and toxic Polyethylene
Predicted No Effect Concentration parts per million PRT PNEC ppm PVC REACH Polyvinylchloride PVC Polyvnylchlonde
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxvx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Resultation exercisis At letterational Continue (Theorems of Processing Code N. Reil) Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods Volatile organic compounds very persistent and very bioaccumulative vPvB The statements made here should describe the product with regard to the necessary safety precautions - they not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility. These statements were made by:
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