

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

HYPER FILL

Date of first edition: 4/14/2023

Safety Data Sheet dated 14/04/2023

version 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Mixture identification:

Trade name: HYPER FILL

Trade code: K50471

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

Recommended use: Adhesives, sealants

Uses advised against: All uses other than recommended ones

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL France

25, avenue de l'Industrie - 69960 Corbas - France

Tel. +33 472 890 684

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112 Kerakoll Italy - +39-0536-816511 Ireland Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112 Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) n. 1272/2008 (CLP)**

0 The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Special Provisions:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients**3.1. Substances**

N.A.

3.2. Mixtures

Mixture identification: HYPER FILL

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
-----	------	--------------	----------------	---------------------

< 0,05 %	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS:2634-33-5 EC:220-120-9 Index:613-088-00-6	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Chronic 2, H411, M-Acute:1	01-2120761540-60
			Specific Concentration Limits: C ≥ 0.05%: Skin Sens. 1 H317	
< 0,0015 %	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS:55965-84-9 Index:613-167-00-5	Acute Tox. 2, H330 Acute Tox. 2, H310 Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410, M-Chronic:100, M-Acute:100, EUH071	
			Specific Concentration Limits: C ≥ 0.6%: Skin Corr. 1C H314 0.06% ≤ C < 0.6%: Skin Irrit. 2 H315 C ≥ 0.6%: Eye Dam. 1 H318 0.06% ≤ C < 0.6%: Eye Irrit. 2 H319 C ≥ 0.0015%: Skin Sens. 1A H317	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Notes
Limestone	NATION AL	BELGIUM		10.000					
	NATION AL	HUNGARY		10.000					
	NATION AL	SPAIN		10.000					Inhalable a
	NATION AL	SWITZERLAN D		3.000					Respirable
	NATION AL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		10.000					Inhalable a
	NATION AL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		4.000					Respirable
	NATION AL	CROATIA		10.000					
	NATION AL	FRANCE		10.000					
	NATION AL	NETHERLAND S		10.000					
di isononylphthalate	NATION AL	PORTUGAL		10.000					
	NATION AL	DENMARK		3.000		6.000			

Aluminium oxide	NATION AL	IRELAND	5.000						
	NATION AL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	5.000						
	NATION AL	FRANCE	10.000						Respirable
	NATION AL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000						Inhalable a
	NATION AL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000						Respirable
	NATION AL	AUSTRALIA	10.000						Inhalable c asbestos a silica
	NATION AL	AUSTRIA	10.000		20.000				Long term Short term minutes av
	NATION AL	AUSTRIA	5.000		10.000				Long term Short term minutes av
	NATION AL	DENMARK	5.000		10.000				Calculated Short term
	NATION AL	DENMARK	2.000		4.000				Calculated Short term
	NATION AL	GERMANY	4.000						Inhalable a
	NATION AL	GERMANY	1.500						Respirable
	NATION AL	HUNGARY	6.000						Respirable
	NATION AL	IRELAND	10.000						Inhalable f
	NATION AL	IRELAND	4.000						Respirable
	NATION AL	LATVIA	6.000						
	NATION AL	POLAND	2.500		16.000				Dz. U. 201 późn. zm
	NATION AL	POLAND	1.200						Aluminium Long term
NATION AL	ROMANIA	2.000	0.500	5.000	1.200			Long term	
NATION AL	SPAIN	10.000						Inhalable a	
NATION AL	SPAIN	5.000						Respirable	
NATION AL	SWEDEN	5.000						Inhalable a	

ethanediol; ethylene glycol	NATION AL	SWEDEN	2.000				Respirable
	NATION AL	SWITZERLAND	3.000				Respirable
	EU	NNN	52.000	20.000	104.000	40.000	Skin
	NATION AL	BELGIUM	52.000	20.000	104.000	40.000	
	NATION AL	ITALY	52.000	20.000	104.000	40.000	Cute
	NATION AL	ROMANIA	52.000	20.000	104.000	40.000	
	NATION AL	SWEDEN	25.000	10.000	104.000	40.000	
	NATION AL	AUSTRALIA	52.000	20.000	104.000	40.000	
	NATION AL	AUSTRIA	26.000	10.000	52.000	20.000	
	NATION AL	BULGARIA	52.000	20.000	104.000	40.000	
	NATION AL	CZECHIA	50.000		100.000		
	NATION AL	CROATIA	52.000	20.000	104.000	40.000	
	NATION AL	DENMARK	26.000	10.000			
	NATION AL	ESTONIA	52.000	20.000	104.000	40.000	
	NATION AL	FRANCE	52.000	20.000	104.000	40.000	
	NATION AL	GERMANY	26.000	10.000			
	NATION AL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	52.000	20.000	104.000	40.000	
	NATION AL	GREECE	125.000	50.000	125.000	50.000	
	NATION AL	IRELAND	20.000		104.000	52.000	
	NATION AL	LATVIA	52.000	20.000	104.000	40.000	
	NATION AL	LITHUANIA	25.000	10.000	50.000	20.000	
	NATION AL	NETHERLANDS	52.000	20.000	104.000	40.000	
	NATION AL	POLAND	15.000		50.000		
	NATION AL	PORTUGAL C			100.000		
	NATION AL	SLOVAKIA	52.000	20.000	127.000	40.000	
	NATION AL	SPAIN	52.000	20.000	127.000	40.000	

sodium hydroxide; caustic soda	NATIONAL	SWITZERLAND	26.000	10.000	52.000	20.000	
	NATIONAL	HUNGARY	52.000		104.000		
	ACGIH	NNN		25.000		50.000	(V), A4 - U
	ACGIH	NNN			10.000		(I, H), A4 -
	EU	NNN	52.000	20.000	104.000	40.000	Skin
	NATIONAL	AUSTRALIA			2		
	NATIONAL	AUSTRIA	2.000		4.000		Long term inhalable a
	NATIONAL	BELGIUM	2.000				
	NATIONAL	DENMARK	2.000		2.000		
	NATIONAL	FINLAND			2.000		
	NATIONAL	FRANCE	2.000				
	NATIONAL	HUNGARY	2.000		2.000		
	NATIONAL	IRELAND			2.000		
	NATIONAL	LATVIA	0.500				
	NATIONAL	POLAND	0.500		1.000		
	NATIONAL	ROMANIA	1.000		3.000		
	NATIONAL	SPAIN	2.000				
	NATIONAL	SWEDEN	1.000		1.000		Long term inhalable f
	NATIONAL	SWITZERLAND	2.000		2.000		long term inhalable f
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND			2.000		
	NATIONAL	BULGARIA	2.000				
phosphoric acid	NATIONAL	CZECHIA	1.000		2.000		
	NATIONAL	ESTONIA	1.000		2.000		
	NATIONAL	GREECE	2.000		2.000		
	NATIONAL	SLOVAKIA	2.000				
	NATIONAL	SLOVENIA	2.000				
	ACGIH	NNN			2.000		URT, eye,
	EU	NNN	1		2		

NATION AUSTRIA AL	1.000		2.000		
NATION BELGIUM AL	1.000		2.000		
NATION DENMARK AL	1.000		2.000		
NATION FINLAND AL	1.000		2.000		
NATION FRANCE AL	1.000	0.200	2.000	0.500	Italic type: limit values
NATION GERMANY AL	2.000		4.000		ASG; Long inhalable a
NATION GERMANY AL	2.000		4.000		DFG; Long inhalable a
NATION HUNGARY AL	1.000		2.000		
NATION IRELAND AL	1.000		2.000		
NATION ITALY AL	1.000		2.000		
NATION LATVIA AL	1.000		2.000		
NATION POLAND AL	1.000		2.000		Dz. U. 201 późn. zm
NATION ROMANIA AL	1.000		2.000		
NATION SPAIN AL	1.000		2.000		
NATION SWEDEN AL	1.000		2.000		
NATION SWITZERLAN AL D	2.000		4.000		Long term inhalable fr
NATION NETHERLAND AL S	1.000		2.000		
NATION UNITED AL KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	1.000		2.000		
NATION BULGARIA AL	1.000		2.000		
NATION CZECHIA AL	1.000		2.000		
NATION CROATIA AL	1.000		2.000		
NATION ESTONIA AL	1.000		2.000		
NATION GREECE AL	1.000		3.000		
NATION LITHUANIA AL	1.000		2.000		
NATION PORTUGAL AL	1.000		3.000		
NATION SLOVAKIA	1.000		2.000		

	AL				
	NATION SLOVENIA	1.000	2.000		
	AL				
	ACGIH NNN	1.000	3.000		URT, eye a
	EU NNN	1.000	2.000		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	NATION AUSTRIA	0.050			
	AL				
	NATION GERMANY	0.200	0.400		DFG; Long
	AL				inhalable f
	NATION SWITZERLAN	0.200	0.400		Inhalable f
	AL D				
	NATION NETHERLAND	0.200			
	AL S				

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	2634-33-5	4.030 µg/l	Fresh Water		
		1.100 µg/l	Intermittent releases (fresh water)		
		403.000 ng/L	Marine water		
		110.000 ng/L	Intermittent releases (marine water)		
		1.030 mg/l	Microorganisms in sewage treatments		
		49.900 µg/kg	Freshwater sediments		
		4.990 µg/kg	Marine water sediments		
		3.000 mg/kg	Soil		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	3.390 µg/l	Fresh Water		
		3.390 µg/l	Intermittent releases (fresh water)		
		3.390 µg/l	Marine water		
		3.390 µg/l	Intermittent releases (marine water)		
		230.000 µg/l	Microorganisms in sewage treatments		
		27.000 µg/l	Freshwater sediments		

27.000 Marine water
µg/l sediments

10.000 Soil
µg/l

Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	2634-33-5		6.810 mg/m ³	1.200 mg/m ³	Human Inhalation	Long Term, systemic effects	
			966.000 µg/kg	345.000 µg/kg	Human Dermal	Long Term, systemic effects	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9		20.000 µg/m ³	20.000 µg/m ³	Human Inhalation	Long Term, local effects	
			40.000 µg/m ³	20.000 µg/m ³	Human Inhalation	Short Term, local effects	
				90.000 µg/kg	Human Oral	Long Term, systemic effects	
				110.000 µg/kg	Human Oral	Short Term, systemic effects	

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid

Color: White

Odour: Characteristic

Odour threshold: N.A.

pH: N.A.

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: 100 °C (212 °F)

Flash point: > 100°C / 212°F

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.65 g/cm³

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Flammability: N.A.
Volatile Organic compounds - VOCs = 0.16 % ; 1.63 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility: N.A.
Conductivity: N.A.
Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	a) acute toxicity	LD50 Oral Rat = 670.00 mg/kg	
		LD50 Skin Rat > 2000.00000 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Corrosive Positive	irreversible damage
	d) respiratory or skin	Skin Sensitization Guinea pig Positive	

sensitisation

f) carcinogenicity	Genotoxicity Rat Negative	Oral route
g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 112.00000 mg/kg	

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

a) acute toxicity	LD50 Oral Rat = 69.00 mg/kg
	LD50 Skin Rabbit = 141.00 mg/kg
	LC50 Inhalation Rat = 0.33 mg/l 4h
b) skin corrosion/irritation	Skin Irritant Rabbit Positive
c) serious eye damage/irritation	Eye Corrosive Rabbit Positive
d) respiratory or skin sensitisation	Skin Sensitization Positive
f) carcinogenicity	Genotoxicity Negative Carcinogenicity Skin Negative
g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 22.70000 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 2.15000 mg/L 96h OECD Guideline 203 a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 2.90000 mg/L 48h OECD Guideline 202 a) Aquatic acute toxicity : EC50 Algae green alga Selenastrum capricornutum freshwater algae = 110.00000 µg/L OECD Guideline 201 d) Terrestrial toxicity : EC50 Worm Eisenia fetida > 410.60000 mg/kg OECD Guideline 207 - Duration 14d d) Terrestrial toxicity : EC10 soil microorganisms = 263.70000 mg/kg - long term a) Aquatic acute toxicity : NOEC Sludge activated sludge 10.30000 mg/L 3h OECD Guideline 209 e) Plant toxicity : LC50 Triticum aestivum = 200.00000 mg/kg OECD Guideline 208
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS: 55965-84-9 - INDEX: 613-167-00-5	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 0.19000 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test) b) Aquatic chronic toxicity : NOEC Fish Danio rerio = 0.02000 mg/L „OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days

a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 0.16000 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)

b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 0.10000 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) - 21days

a) Aquatic acute toxicity : EC50 Algae Skeletonema costatum = 0.00 mg/L 96h „OECD Guideline 201 (Alga, Growth Inhibition Test)

a) Aquatic acute toxicity : EC50 Sludge activated sludge = 4.50000 mg/L 3h „OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 613.00000 mg/kg „OECD Guideline 207 (Earthworm, Acute Toxicity Tests) - 14days

e) Plant toxicity : NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000.00000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days

12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Notes:
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Non-readily biodegradable	CO2 production	OECD Guideline 301C
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Non-readily biodegradable		

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes:
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	Bioaccumulative	BCF - Bioconcentration factor	6.620	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	Bioaccumulative	BCF - Bioconcentration factor	54.000	≤ 54

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: 52, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

2: Hazard to waters

SVHC Substances:

No data available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
BCF: Biological Concentration Factor
BEI: Biological Exposure Index
BOD: Biochemical Oxygen Demand
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CAV: Poison Center
CE: European Community
CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.