



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

TM DESANACID FP

Version number: GHS 1.0

Date of compilation: 07.01.2026

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

1.1 Product identifier

Trade name

TM DESANACID FP

Registration number (REACH)

not relevant (mixture)

Unique formula identifier (UFI)

MQ00-E0HJ-M00W-4AG4

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

Relevant identified uses

cleaning agent
biocidal product
professional use (SU22)
industrial use (SU3)

Uses advised against

this information is not available

1.3 Details of the supplier of the safety data sheet

Thonhauser GmbH
Perlhofgasse 2/1
2372 Gießhübl
Austria

Telephone: +43 (0)2236 320 272

e-mail: QA@thonhauser.net

Website: www.afco.eu

Additional information

Manufacturer					
Country	Name	Postal code/city	Telephone	e-Mail	website
Austria	Thonhauser GmbH	2372 Gießhübl	+43 2236 320 272	Cleaning@thonhauser.net	www.afco.eu

Additional suppliers					
Country	Name	Street	Postal code/city	Telephone	e-Mail
Switzerland	AFCO Switzerland GmbH	Dorf 104	9428 Waizenhausen	+41 79 568 80 99	Cleaning@thonhauser.net
Switzerland	Chaillot Bouchons SA	Chemin du Glapin 10	1162 St-Prex	+41 (0)21 823 20 00	Info@chaillot.ch

e-mail (competent person)

QA@thonhauser.net

1.4 Emergency telephone number

Manufacturer

+43 (2236) 320 272

Mon - Thu 08:00 - 16:30, Fri 08:00 - 12:30

Poison centre & Emergency information service

Switzerland	Tox Info Suisse	145
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture



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Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4R	Respiratory sensitisation	1	Resp. Sens. 1	H334
3.4S	Skin sensitisation	1	Skin Sens. 1	H317
3.8R	Specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word **danger**

- Pictograms

GHS07, GHS08



- Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing dust.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 In case of inadequate ventilation wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an authorized waste treatment facility.

- Hazardous ingredients for labelling disodium peroxodisulphate

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties



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Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of sub-stance	Identifier	Conc.	Classification acc. to GHS	Pictograms	M-Factors
Sulphamidic acid	CAS No 5329-14-6 EC No 226-218-8	35 – < 50 wt%	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Aquatic Chronic 3 / H412		
Disodium peroxodi-sulphate	CAS No 7775-27-1 EC No 231-892-1	35 – < 50 wt%	Ox. Sol. 3 / H272 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335	 	
Sodium perman-ganate	CAS No 10101-50-5 EC No 233-251-1	< 1 wt%	Ox. Sol. 2 / H272 Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	 	M-Factor (acute) = 10

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Disodium peroxodisulphate	-	-	1.200 mg/kg	Oral
Sodium permanganate	-	M-Factor (acute) = 10	500 mg/kg	Oral

Remarks

for full text of abbreviations: see SECTION 16

Regulation 528/2012/EU concerning the making available on the market and use of biocidal products

Biocidal active substances		
Name of substance	w/w	unit
Disodium peroxodisulphate	412	g/kg

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give



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anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Ideally, use the PREVIN® solution as the first rinse. Use all of the content. If the PREVIN® solution is not immediately available, rinse with water first and then as soon as possible with the PREVIN® solution.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water, foam, alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

nitrogen oxides (NO_x), phosphorus oxides (P_xO_y), sulphur oxides (SO_x)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

covering of drains, take up mechanically

Advice on how to clean up a spill

Take up mechanically. Absorbents and binders, neutralising agents.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Incompatible substances or mixtures: see section 7. Personal



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protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

- Handling of incompatible substances or mixtures

- Keep away from

bases (alkalis)

- Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Incompatible substances or mixtures

Prohibition of joint storage (with): bases (alkalis)

- Floors

The materials shall display sufficient resistance to the prevalent chemical conditions (Acids).

- Consideration of other advice

Observe technical data sheet.

Lagerklasse (storage class according to TRGS 510, Germany): 13 (non-combustible solids)

- Ventilation requirements

Use local and general ventilation.

7.3 Specific end use(s)

These information are not available.

7.4 Other information

storage temperature of 0 °C and up to 20 °C

recommended storage temperature: 15-25 °C

Keep container tightly closed.

Store in a dry place.

Protect from moisture.

Do not allow contact with water.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)											
Cou ntry	Name of agent	CAS No	Iden tifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/m ³]	Nota tion	Sour ce
CH	Dust (particu- lates)		MAK		3					Bio_p er- sist-	SUVA



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Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
										ent, r	
CH	Dust (particulates)		MAK		10					I	SUVA
CH	Manganese, inorganic compounds	7722-64-7	MAK		0,5					Mn, i	SUVA
EU	Manganese, inorganic compounds	7722-64-7	IOEL V		0,2					Mn, i	2017/164/EU
EU	Manganese, inorganic compounds	7722-64-7	IOEL V		0,05					Mn, r	2017/164/EU

Notation

bio_persistent Granulated-bio persistent.

Ceiling-C Ceiling value is a limit value above which exposure should not occur.

i Inhalable fraction.

Mn Calculated as Mn (manganese).

r Respirable fraction.

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified).

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified).

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Sulphamidic acid	5329-14-6	DNEL	70,5 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Sulphamidic acid	5329-14-6	DNEL	10 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
Disodium peroxodisulphate	7775-27-1	DNEL	2,06 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Disodium peroxodisulphate	7775-27-1	DNEL	0,824 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - local effects
Disodium peroxodisulphate	7775-27-1	DNEL	12,7 mg/kg bw/day	Human, dermal	Worker (industry)	Chronic - systemic effects
Sodium permanganate	10101-50-5	DNEL	0,05 mg/m ³	Human, inhalatory	Worker (industry)	Chronic - systemic effects
Sodium permanganate	10101-50-5	DNEL	0,05 mg/m ³	Human, inhalatory	Worker (industry)	Acute - systemic effects

Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Sulphamidic acid	5329-14-6	PNEC	200 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
Sulphamidic acid	5329-14-6	PNEC	0,3 mg/kg	Benthic organisms	Sediments	Short-term (single instance)



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Relevant PNECs of components						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
						instance)
Sulphamidic acid	5329-14-6	PNEC	0,03 mg/kg	Pelagic organisms	Sediments	Short-term (single instance)
Sulphamidic acid	5329-14-6	PNEC	0,3 mg/l	Aquatic organisms	Water	Intermittent release
Sulphamidic acid	5329-14-6	PNEC	1,8 mg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Sulphamidic acid	5329-14-6	PNEC	0,18 mg/l	Aquatic organisms	Marine water	Short-term (single instance)
Sulphamidic acid	5329-14-6	PNEC	20 mg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
Sulphamidic acid	5329-14-6	PNEC	8,36 mg/kg	Aquatic organisms	Freshwater sediment	Short-term (single instance)
Sulphamidic acid	5329-14-6	PNEC	0,84 mg/kg	Aquatic organisms	Marine sediment	Short-term (single instance)
Sulphamidic acid	5329-14-6	PNEC	5 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	3,6 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	0,275 mg/kg	Benthic organisms	Sediments	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	0,0396 mg/kg	Pelagic organisms	Sediments	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	0,763 mg/l	Aquatic organisms	Water	Intermittent release
Disodium peroxodisulphate	7775-27-1	PNEC	0,518 mg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	0,052 mg/l	Aquatic organisms	Marine water	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	3,6 mg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	2,03 mg/kg	Aquatic organisms	Freshwater sediment	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	0,203 mg/kg	Aquatic organisms	Marine sediment	Short-term (single instance)
Disodium peroxodisulphate	7775-27-1	PNEC	0,1 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)
Sodium permanganate	10101-50-5	PNEC	0 mg/l	Aquatic organisms	Freshwater	Short-term (single instance)
Sodium permanganate	10101-50-5	PNEC	0 mg/l	Aquatic organisms	Marine water	Short-term (single instance)
Sodium permanganate	10101-50-5	PNEC	1,64 mg/l	Aquatic organisms	Sewage treatment plant (STP)	Short-term (single instance)

8.2 Exposure controls

Schweiz: Die berufliche Verwendung dieses Produktes durch Jugendliche ist eingeschränkt oder ganz verboten. Die dazugehörigen Rechtsgrundlagen und genauen Bestimmungen sind in Abschnitt 15 aufgeführt.

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)



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Eye/face protection

Wear eye/face protection. Use safety goggle with side protection. Use protective eyewear to guard against splash of liquids. EN 166.

Skin protection

- Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Protective gloves - Splash protection

Recommended protective gloves (trademark/manufacturer):

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Chemical protective clothing

Wear suitable protective clothing.

Respiratory protection

Particulate filter device (EN 143). Adequate particulate filter (EN 143). Type: B (against inorganic gases and vapours, colour code: Grey).

Environmental exposure controls

Avoid release to the environment. Refer to special instructions/safety data sheets. Before discharge of the waste water into a municipal waste water treatment facility the product normally needs to be neutralised.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid (powder)
Colour	pink - grey
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not relevant (solid)
Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	1,2 – 2,2 (in aqueous solution: 10 g/l, 20 °C) * (acid)
Kinematic viscosity	not relevant



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Solubility(ies)	not determined
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Partition coefficient

n-octanol/water (log KOW)	not relevant (inorganic)
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Vapour pressure	not determined
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Density and/or relative density

Density	not determined
Relative vapour density	not relevant (solid)

Particle characteristics	no data available
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9.2 Other information

Information with regard to physical hazard classes

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics

Solid content 100 %

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Exhibits an exothermic reaction (with): Caustic solutions (Alkalis)

Dangerous/dangerous reactions with: base metals (formation of hydrogen), oxidisers

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The classification is based on tested mixture.

Classification according to GHS (1272/2008/EC, CLP)



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Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Disodium peroxodisulphate	7775-27-1	Oral	1.200 mg/kg
Sodium permanganate	10101-50-5	Oral	500 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sulphamidic acid	5329-14-6	LC50	70,3 mg/l	Fish	96 h
Sulphamidic acid	5329-14-6	EC50	71,6 mg/l	Aquatic invertebrates	24 h
Sulphamidic acid	5329-14-6	ErC50	48 mg/l	Algae	72 h
Disodium peroxodi-sulphate	7775-27-1	LC50	76,3 mg/l	Fish	96 h
Disodium peroxodi-sulphate	7775-27-1	EC50	120 mg/l	Aquatic invertebrates	48 h
Sodium permanganate	10101-50-5	LC50	0,7 mg/l	Fish	48 h
Sodium permanganate	10101-50-5	EC50	0,06 mg/l	Aquatic invertebrates	48 h



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Aquatic toxicity (acute) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sodium permanganate	10101-50-5	ErC50	0,8 mg/l	Algae	72 h

Aquatic toxicity (chronic) of components					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Sulphamidic acid	5329-14-6	EC50	>60 mg/l	Aquatic invertebrates	21 d
Disodium peroxodi-sulphate	7775-27-1	EC50	11 mg/l	Aquatic invertebrates	5 d
Sodium permanganate	10101-50-5	LC50	1,51 mg/l	Fish	24 h
Sodium permanganate	10101-50-5	EC50	0,15 mg/l	Aquatic invertebrates	24 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Sulphamidic acid	5329-14-6		-4,34 (pH value: <2, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Recycling/reclamation of other inorganic materials.

Sewage disposal-relevant information

The application solution can be disposed in the sewage system, taking into account technical and national regulations.

Waste treatment of containers/packageings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

Waste catalogue ordinance (Germany)

Assign arising waste to a waste code according to the national list of waste

Remarks



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Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

- 14.1 UN number or ID number** not subject to transport regulations
- 14.2 UN proper shipping name** not relevant
- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**
There is no additional information.
- 14.7 Maritime transport in bulk according to IMO instruments**
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

Not relevant.

Deco-Paint Directive

VOC content 0 %

Industrial Emissions Directive (IED)

VOC content 0 %

National regulations (Germany)

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 1 slightly hazardous to water
(water hazard class):

Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.1	Total dust, including micro-dust		≥ 25 wt%	0,2 kg/h	20 mg/m ³	Mn 2)

Notation

2) Even with a mass flow smaller than or equal to 0.20 kg/h, a mass concentration of 0.15 g/m³ in waste gas may not be exceeded.

Mn Calculated as Mn (manganese).



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Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK): 13 (non-combustible solids)

National regulations (Switzerland)

Regulations to be observed

- Ordinance on protection against dangerous substances and preparations (Chemicals ordinance, ChemO (SR 813.11)
- Ordinance on the avoidance and the disposal of waste (Ordinance on the avoidance and the disposal of waste) (SR 814.600)
- Youth employment protection ordinance; EmpA 5 (Ordinance 5 to the employment act) (SR 822.115)
- Ordinance on dangerous or difficult work in pregnancy and maternity (Maternity protection ordinance) (SR 822.111.52)

- Maternity protection ordinance (Article - 13)

Not relevant.

- Ordinance on hazardous work for young people (SR 822.115.2)

Young people undergoing basic vocational training may only work with this product (substance/preparation) if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not undergoing any basic vocational training are not permitted to work with this product (substance/preparation). Young people with a Federal vocational education and training (VET) Certificate or a Federal VET Diploma may carry out hazardous work with this product (substance/preparation) within the profession they have learned. Male and female employees who are under 18 years old are classed as young people.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval



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Abbr.	Descriptions of used abbreviations
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
Log KOW	n-Octanol/water
M-Factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
Ox. Sol.	Oxidising solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
Ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	Respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SUVA	Grenzwerte am Arbeitsplatz, Suva
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
VPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regula-



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tion (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.