

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



Nutrimix® Complete

Version	Revision Date:	SDS Number:	Date of last issue: 19.10.2024
1.4	18.11.2024	M0091	Date of first issue: 21.09.2024

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

1.1 Product identifier

Trade name : Nutrimix® Complete

Unique Formula Identifier (UFI) : XHK5-20QP-U00F-Q521

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

Use of the Sub-stance/Mixture : Fertiliser

1.3 Details of the supplier of the safety data sheet

Company : COMPO EXPERT GmbH
Krögerweg 10
D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person responsible for the SDS : info@compo-expert.com

1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h
Telephone:+49 (0) 6132 - 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P260 Do not breathe dust.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P314 Get medical advice/ attention if you feel unwell.
P391 Collect spillage.

Hazardous components which must be listed on the label:

Manganese sulfate
Zinc sulphate, monohydrate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic fertiliser

Components

Chemical name	CAS-No.	Classification	Concentration
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	EC-No. Index-No. Registration number		(% w/w)
Copper disodium-EDTA	14025-15-1 237-864-5 01-2119963944-23-XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319 <hr/> Acute toxicity estimate <hr/> Acute oral toxicity: 890 mg/kg	>= 20 - < 30
Manganese sulfate	10034-96-5 232-089-9 01-2119456624-35-XXXX	Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Chronic 2; H411	>= 10 - < 20
diiron tris(sulphate)	10028-22-5 233-072-9 01-2119513202-59-XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 3 - < 10
Zinc sulphate, monohydrate	7446-19-7 231-793-3 030-006-00-9 01-2119474684-27-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 <hr/> Acute toxicity estimate <hr/> Acute oral toxicity: 1.260 mg/kg	>= 3 - < 10
Citric acid, monohydrate	5949-29-1 611-842-9 01-2119457026-42-XXXX	Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

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- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Ingestion may provoke the following symptoms:
Methaemoglobinemia
- Risks : Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water
Dry chemical
Water mist
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
Carbon dioxide (CO₂)
Foam
Sand

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Thermal decomposition can lead to release of irritating gases and vapours.
Do not allow run-off from fire fighting to enter drains or water courses.
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Hazardous combustion products : Nitrogen oxides (NO_x)
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
The product itself does not burn.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Wash contaminated clothing before re-use.
Avoid breathing dust.
For personal protection see section 8.
For disposal considerations see section 13.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
Wear personal protective equipment.
Keep away from combustible material.
Keep away from heat and sources of ignition.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national

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regulations.

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed. During processing, dust may form explosive mixture in air.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture.

Advice on common storage : Keep away from combustible materials.
Keep away from strong acids.
Keep away from strong bases.
Keep away from food, drink and animal feedingstuffs.

Storage class (TRGS 510) : 13

Further information on storage stability : Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) : Not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Manganese sulfate	10034-96-5	AGW (Inhalable fraction)	0,2 mg/m ³ (Manganese)	DE TRGS 900
		Peak-limit: excursion factor (category): 8;(II)		
		Further information: For Permanganates an excursion factor of 1(II) applies., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		AGW (Alveolate fraction)	0,02 mg/m ³ (Manganese)	DE TRGS 900
		Peak-limit: excursion factor (category): 8;(II)		
		Further information: For Permanganates an excursion factor of 1(II) applies., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		MAK (measured as the alveolate)	0,02 mg/m ³	DE DFG MAK

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		fraction)		
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed, Permanganates: Peak limitation category I(1)			
		MAK (inhalable fraction)	0,2 mg/m3	DE DFG MAK
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed, Permanganates: Peak limitation category I(1)			
		TWA (inhalable fraction)	0,2 mg/m3 (Manganese)	2017/164/EU
	Further information: Indicative			
		TWA (Respirable fraction)	0,05 mg/m3 (Manganese)	2017/164/EU
	Further information: Indicative			
Zinc sulphate, monohydrate	7446-19-7	MAK (measured as the alveolate fraction)	0,1 mg/m3	DE DFG MAK
	Further information: Zinc chloride: peak limit I(1), Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		MAK (inhalable fraction)	2 mg/m3	DE DFG MAK
	Further information: Zinc chloride: peak limit I(1), Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
Citric acid, monohydrate	5949-29-1	MAK (inhalable fraction)	2 mg/m3	DE DFG MAK
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW (Inhalable fraction)	2 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(1)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium sulphate	Workers	Skin contact	Long-term systemic effects	42,667 mg/kg
	Workers	Inhalation	Long-term systemic effects	11,167 mg/m3
	Consumer use	Oral	Long-term systemic effects	6,4 mg/kg
	Consumer use	Skin contact	Long-term systemic effects	12,8 mg/kg
	Consumer use	Inhalation	Long-term systemic effects	1,667 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
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ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
	Fresh water	0,063 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Gloves

Directive : Equipment should conform to EN 374

Remarks : As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

Skin and body protection : Long sleeved clothing

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Equipment should conform to EN 14387

Filter type : Filter type P

Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Wash contaminated clothing before re-use.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : white, blue

Odour : none

Melting point/range : No data available

Boiling point/boiling range : No data available

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Flammability : Will not burn

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : None known.

pH : 3 - 5

Solubility(ies)
Water solubility : completely soluble

Partition coefficient: n-octanol/water : Not applicable

Bulk density : 1.100 - 1.300 kg/m³

Particle characteristics
Particle size : 0,2 - 1,2 mm

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : does not ignite

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Heating can release hazardous gases.
Dust can form an explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : Hot surface(s)
Direct sources of heat.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products : Nitrogen oxides (NO_x)
Carbon oxides

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Copper disodium-EDTA:

Acute oral toxicity : LD50 (Rat): 890 mg/kg
Assessment: Harmful if swallowed.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Manganese sulfate:

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Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

diiron tris(sulphate):

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Zinc sulphate, monohydrate:

Acute oral toxicity : LD50 (Rat): 1.260 mg/kg

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Citric acid, monohydrate:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:

Copper disodium-EDTA:

Assessment : No skin irritation

Manganese sulfate:

Assessment : No skin irritation

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diiron tris(sulphate):

Assessment : Irritating to skin.

Zinc sulphate, monohydrate:

Assessment : No skin irritation

Citric acid, monohydrate:

Assessment : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Copper disodium-EDTA:

Assessment : Irritating to eyes.

Manganese sulfate:

Assessment : Risk of serious damage to eyes.

diiron tris(sulphate):

Assessment : Risk of serious damage to eyes.

Zinc sulphate, monohydrate:

Assessment : Risk of serious damage to eyes.

Citric acid, monohydrate:

Assessment : irritating

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Components:

Copper disodium-EDTA:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

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Manganese sulfate:

Assessment : Does not cause skin sensitisation.
Assessment : Does not cause respiratory sensitisation.

diiron tris(sulphate):

Assessment : Does not cause skin sensitisation.
Assessment : Does not cause respiratory sensitisation.

Zinc sulphate, monohydrate:

Assessment : Does not cause skin sensitisation.
Assessment : Does not cause respiratory sensitisation.

Citric acid, monohydrate:

Assessment : Does not cause skin sensitisation.
Assessment : Does not cause respiratory sensitisation.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Components:

Copper disodium-EDTA:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Manganese sulfate:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

diiron tris(sulphate):

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Zinc sulphate, monohydrate:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Citric acid, monohydrate:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

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Carcinogenicity

Based on available data, the classification criteria are not met.

Components:

Copper disodium-EDTA:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Manganese sulfate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

diiron tris(sulphate):

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Zinc sulphate, monohydrate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Citric acid, monohydrate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:

Copper disodium-EDTA:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

Manganese sulfate:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

diiron tris(sulphate):

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

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Zinc sulphate, monohydrate:

Reproductive toxicity - Assessment : No toxicity to reproduction
No effects on or via lactation

Citric acid, monohydrate:

Reproductive toxicity - Assessment : No toxicity to reproduction
No effects on or via lactation

STOT - single exposure

Based on available data, the classification criteria are not met.

Components:

Copper disodium-EDTA:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Manganese sulfate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

diiron tris(sulphate):

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Zinc sulphate, monohydrate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Citric acid, monohydrate:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

Copper disodium-EDTA:

Assessment : The substance or mixture is not classified as specific target

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organ toxicant, repeated exposure.

Manganese sulfate:

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

diiron tris(sulphate):

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Zinc sulphate, monohydrate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Citric acid, monohydrate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Components:

Copper disodium-EDTA:

No aspiration toxicity classification

Manganese sulfate:

No aspiration toxicity classification

diiron tris(sulphate):

No aspiration toxicity classification

Zinc sulphate, monohydrate:

No aspiration toxicity classification

Citric acid, monohydrate:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to

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REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Manganese sulfate:

Toxicity to fish (Chronic toxicity) : NOEC: 4.496,89 µg/l
Exposure time: 30 d
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 µg/l
Exposure time: 20 d

Zinc sulphate, monohydrate:

Toxicity to fish : LC50 : 315 µg/l
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,1 mg/l
Exposure time: 96 d
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Chronic aquatic toxicity) : 1

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

Citric acid, monohydrate:

Partition coefficient: n-octanol/water : log Pow: -1,6

log Pow: -1,8

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Copper disodium-EDTA:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

Manganese sulfate:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

Citric acid, monohydrate:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system. Dispose of in accordance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Empty remaining contents. Empty containers should be taken to an approved waste han-

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ding site for recycling or disposal.
Dispose of as unused product.
Empty containers retain residue and can be dangerous.

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 3077
ADR : UN 3077
RID : UN 3077
IMDG : UN 3077
IATA : UN 3077

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Manganese sulfate, Zinc sulphate, monohydrate)
ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Manganese sulfate, Zinc sulphate, monohydrate)
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Manganese sulfate, Zinc sulphate, monohydrate)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
(Manganese sulfate, Zinc sulphate, monohydrate)
IATA : Environmentally hazardous substance, solid, n.o.s.
(Manganese sulfate, Zinc sulphate, monohydrate)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 9	
ADR	: 9	
RID	: 9	
IMDG	: 9	
IATA	: 9	

14.4 Packing group

ADN
Packing group : III
Classification Code : M7
Hazard Identification Number : 90

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Labels : 9

ADR

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (E)

RID

Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous Dangerous Goods

IATA_P (Passenger)

Packing instruction (passenger aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous Dangerous Goods

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Regulatory basis	:	IMSBC Code
Remarks	:	Product is not allowed to be transported in bulk.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E2 ENVIRONMENTAL HAZARDS

Water hazard class (Germany) : WGK 3 highly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

Not relevant

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.

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- H373 : May cause damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

- Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Skin Irrit. : Skin irritation
STOT RE : Specific target organ toxicity - repeated exposure
STOT SE : Specific target organ toxicity - single exposure
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
DE DFG MAK : Germany. MAK BAT Annex IIa
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
2017/164/EU / TWA : Limit Value - eight hours
DE DFG MAK / MAK : MAK value
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet;

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SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Eye Dam. 1	H318
STOT RE 2	H373
Aquatic Chronic 2	H411

Classification procedure:

Calculation method
Calculation method
Calculation method

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