



MATERIAL SAFETY DATA SHEET (MSDS)

1.1. Product identifier	
Product form	: Mixture
	:
Product code	: 03845
Synonyms	: 1,10-Phenanthroline- ferrous sulphate complex solution

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
0.4		
3.1.	Substances	
Not ap	Not applicable	

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	97.9	Not classified
1,10-phenanthroline	(CAS-No.) 66-71-7 (EC-No.) 200-629-2 (EC Index-No.) 613-092-00-8	1.5	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Iron (II) sulfate (1:1) heptahydrate	(CAS-No.) 7782-63-0 (EC-No.) 231-753-5 (EC Index-No.) 026-003-01-4	0.7	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measu	ires
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Wash with plenty of water/ Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting.
4.2. Most important symptoms an	d effects, both acute and delayed
No additional information available	
4.3. Indication of any immediate r	nedical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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5.2.	Special hazards arising from the	substance or mixture	
No additional information available			
5.3.	Advice for firefighters		
Protectio	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.	
SECTIO	N 6: Accidental release measures	6	
6.1.	Personal precautions, protective	equipment and emergency procedures	
6.1.1.	For non-emergency personnel		
	ncy procedures	: Evacuate unnecessary personnel.	
-			
6.1.2.	For emergency responders		
Protectiv	ve equipment	: Use personal protective equipment as required.	
Emerger	ncy procedures	: Ventilate area.	
6.2.	Environmental precautions		
Avoid re	lease to the environment.		
6.3.	Methods and material for contain	nment and cleaning up	
Methods	for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.	
C 4	Defenses to other continue		
6.4.	Reference to other sections		
SECTIO	N 7: Handling and storage		
7.1.	Precautions for safe handling		
Precauti	ons for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours.	
Hygiene	measures	: Wash hands and other exposed areas with mild soap and water before eating,	
		drinking or smoking and when leaving work.	
7.2.	Conditions for safe storage, incl	uding any incompatibilities	
Storage	conditions	: Keep container tightly closed.	
7.3.	Specific end use(s)		
No addit	ional information available		
SECTIO	N 8: Exposure controls/personal	protection	
8.1.	Control parameters		
0.1.	Control parameters		

No additional information available

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8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection.
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid
Colour	: Dark red solution.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.006 g/cm ³
Solubility	: Water: Soluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
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10.2. Ch	0.2. Chemical stability		
Stable unde	r normal conditions.		
	ssibility of hazardous reac	tions	
No additiona	al information available		
10.4 Co	nditions to avoid		
		maraturaa	
Direct sunlig	ht. Extremely high or low ter	nperatures.	
10.5. Inc	ompatible materials		
	al information available		
10.6. Haz	zardous decomposition pr	oducts	
No additiona	al information available		
SECTION 1	1: Toxicological informatio	n	
	ormation on toxicological		
Acute toxicit	У	: Not classified	
Skin corrosio	on/irritation	: Not classified	
Serious eye	damage/irritation	: Not classified	
Respiratory	or skin sensitisation	: Not classified	
Germ cell m	utagenicity	: Not classified	
Carcinogeni	city	: Not classified	
Depreductiv	e tevicity	: Not classified	
Reproductiv	=		
STOT-single	exposure	: Not classified	
STOT-repea	ted exposure	: Not classified	
. . <i>.</i>			
Aspiration ha	azard	: Not classified	

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Harmful to aquatic life with long lasting effects.

12.2.	Persistence and degradability	
FERR	OIN SOLUTION AR 0.025 M	
Persis	stence and degradability	May cause long-term adverse effects in the environment.

12.3.	Bioaccumulative potential
No addit	tional information available

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Mobility in soil No additional information available

12.4.

12.5. Results of PBT and vPvB asses	sment	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal	: Dispose of contents/container to hazardous or special waste collection point, in	
recommendations	accordance with local, regional, national and/or international regulation.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IAT		
In accordance with ADR / RID / IMDG / IAT	A/ ADN	
14.1. UN number		
UN-No. (ADR)	: Not applicable	
UN-No. (IMDG)	: Not applicable	
UN-No. (IATA)	: Not applicable	
UN-No. (ADN)	: Not applicable	
UN-No. (RID)	: Not applicable	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG)	: Not applicable	
Proper Shipping Name (IATA)	: Not applicable	
Proper Shipping Name (ADN)	: Not applicable	
Proper Shipping Name (RID)	: Not applicable	
14.3. Transport hazard class(es)		
ADR		
Transport hazard class(es) (ADR)	: Not applicable	
IMDG		
Transport hazard class(es) (IMDG)	: Not applicable	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: Not applicable	
	· Materia Reserve	
Transport hazard class(es) (ADN)	: Not applicable	
RID		
Transport hazard class(es) (RID)	: Not applicable	
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14.4. Packing group		
Packing group (ADR)	: Not applicable	
Packing group (IMDG)	: Not applicable	
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Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
Dangerous for the environment Marine pollutant	: No

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

Air transport
No data available

- Inland waterway transport No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany		
Reference to AwSV		Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1) $$
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute toxicity (oral), Category 3				
Acute toxicity (oral), Category 4				
Hazardous to the aquatic environment — Acute Hazard, Category 1				
Hazardous to the aquatic environment — Chronic Hazard, Category 1				
Serious eye damage/eye irritation, Category 2				
Skin corrosion/irritation, Category 2				
Toxic if swallowed.				
Harmful if swallowed.				
Causes skin irritation.				
Causes serious eye irritation.				
Very toxic to aquatic life.				
Very toxic to aquatic life with long lasting effects.				

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.