

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 05.07.2021 Revision: 05.07.2021 Version number 2.02 (replaces version 2.01)

SECTION 1: Identification of the substance/ undertaking	mixture and of the company/
· 1.1 Product identifier	
· Trade name: <u>Manganese sulfate</u>	
 Article number: 1413 CAS Number: 10034-96-5 EC number: 232-089-9 Index number: 025-003-00-4 Application of the substance / the mixture Laboratory chem 	icals
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: PANREAC QUIMICA S.L.U. C/Garraf 2 Polígono Pla de la Bruguera E-08211 Castellar del Vallès (Barcelona) 	Tel. (+34) 937 489 400 Fax. (+34) 937 489 401 e-mail: product.safety@panreac.com
 Further information obtainable from: email: product.safety@ 1.4 Emergency telephone number: Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499)panreac.com
SECTION 2: Hazards identification	
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 STOT RE 2 H373 May cause damage to organs through Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting etc. 	

· 2.2 Label elements

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

The substance is classified and labelled according to the CLP regulation. • Hazard pictograms



· Signal word Warning

· Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.

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- H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
- P273 Avoid release to the environment.
- P314 Get medical advice/attention if you feel unwell.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- 10034-96-5 Manganese sulfate
- Identification number(s)
 EC number: 232-089-9
- · Index number: 025-003-00-4

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- Involve doctor immediately.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Call a doctor immediately.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Sulphur oxides (SOx)
- Non-combustible.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust.
 Avoid substance contact.
 Ensure adequate ventilation
- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

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Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up: Pick up mechanically. Avoid formation of dust. Dispose contaminated material as waste according to item 13. Clean up affected area.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Prevent formation of dust.
- Any unavoidable deposit of dust must be regularly removed.
- · Information about fire and explosion protection: The product is not flammable.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:
- Open receptacle only under localised extractor facilities.
- Store under lock and key and with access restricted to technical experts or their assistants only. Keep container sealed.
- · Recommended storage temperature: Room Temperature
- · Storage class: 13
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

10034-96-5 Manganese sulfate

- WEL Long-term value: 0.2* 0.05** mg/m³
 - as Mn *inhalable fraction **respirable fraction
- Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Vacuum clean contaminated clothing. Do not blow or brush off contamination.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Recommended thickness of the material: ≥ 0.11 mm Value for the permeation: Level > 480 min

As protection from splashes gloves made of the following materials are suitable: Recommended thickness of the material: > 0.11 mm Value for the permeation: Level \geq 480 min

• Eye/face protection Safety glasses

· Body protection: Use protective suit.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemic	al properties
· General Information	
· Physical state	Solid
· Colour:	Pink
· Odour:	Odourless
· Odour threshold:	Not determined.
 Melting point/freezing point: 	700 °C
Boiling point or initial boiling point and boiling	g
range	Undetermined.
· Flammability	Product is not flammable.
• Lower and upper explosion limit	
Lower:	Not determined.
· Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
рН	3-3.5
· Viscosity:	
Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
water at 20 °C:	762 g/l
 Partition coefficient n-octanol/water (log value)) Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	2.95 g/cm ³
Relative density	Not determined.
Bulk density:	1,000-1,200 kg/m³
Vapour density	Not applicable.
• 9.2 Other information	
· Appearance:	
· Form:	Solid
· Important information on protection of healt	
and environment, and on safety.	
• Explosive properties:	Product does not present an explosion hazard.
Change in condition	
· Evaporation rate	Not applicable.
•	
Information with regard to physical hazar	d
classes	
Explosives	Void
· Flammable gases	Void
· Aerosols	Void
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• Oxidising gases	Void	
· Gases under pressure	Void	
· Flammable liquids	Void	
Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

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.
- · LD/LC50 values relevant for classification:
- Quantitative data on the toxicological effect of this product are not available.

· Components	Гуре	Value	Species
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- Oral LD50 2,150 mg/kg (rat)
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met. • After inhalation: No irritant effect.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:
- Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport informa	tion
 14.1 UN number or ID number ADR, IMDG, IATA 	UN3077
 14.2 UN proper shipping name ADR, IATA IMDG 	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Manganese sulfate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Manganese sulfate), MARINE POLLUTANT
 14.3 Transport hazard class(es) ADR ADR 	
· Class · Label	9 (M7) Miscellaneous dangerous substances and articles. 9
Class	9 Miscellaneous dangerous substances and articles.
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Trade name: Manganese sulfate (Contd. of page 6) · Label 9 · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles. · Hazard identification number (Kemler code): 90 F-A,S-F · EMS Number: Stowage Category А Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: · ADR · Limited quantities (LQ) 5 kg · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g · Transport category 3 · Tunnel restriction code Е · Limited quantities (LQ) 5 kg Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g · UN "Model Regulation": **UN 3077 ENVIRONMENTALLY HAZARDOUS** SUBSTANCE, SOLID, N.O.S. (MANGANESE SULFATE), 9, III

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

• National regulations:

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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International Carriage of Dangerous Good IMDG: International Maritime Code for Da IATA: International Air Transport Associa GHS: Globally Harmonised System of Cla EINECS: European Inventory of Existing CAS: Chemical Abstracts Service (divisio LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and To SVHC: Substances of Very High Concerr vPvB: very Persistent and very Bioaccum STOT RE 2: Specific target organ toxicity	angerous Goods tion assification and Labelling of Chemicals Commercial Chemical Substances on of the American Chemical Society) exic n nulative ((repeated exposure) – Category 2 atic environment - long-term aquatic hazard – Category 2
Annex: Exposure scenario	0
	nario Formulation and packing/repacking of substances and mixture
Description of the activities / pr	rocesses covered in the Exposure Scenario
See section 1 of the annex to the	Safety Data Sheet.
Conditions of use	
Duration and frequency 5 works	Jays/week.
Physical parameters Physical state Solid	
Concentration of the substance	e in the mixture Raw material
Other operational conditions	
	ffecting environmental exposure Use only on hard ground.
	ffecting consumer exposure No special measures required.
Other operational conditions at	ffecting consumer exposure during the use of the product
Not applicable.	
Risk management measures	
Worker protection	
	sures No special measures required.
Technical protective measures	
Use product only in enclosed syst	
Personal protective measures I	e available on processing machines
Measures for consumer protect	
Environmental protection measures	
Water Do not allow to reach sewa	
Soil Prevent contamination of soi	
	waste is collected and contained.
Disposal procedures	
Dispusal procedures	th household garbage. Do not allow product to reach sewage syster
Must not be disposed together wir Waste type Partially emptied and	
Must not be disposed together wir Waste type Partially emptied and Exposure estimation	uncleaned packaging
Must not be disposed together wir Waste type Partially emptied and Exposure estimation Consumer Not relevant for this E	uncleaned packaging