

Iron(II) ethyldiammoniu	msulfate tetrahydrate basic sub tracable t	stance secondary reference mate	rial
Revision date: 21.07.2023	Product code: 20480	,	Page 1 of 8
SECTION 1: Identification of the s	ubstance/mixture and of the comp	any/undertaking	
<u>1.1. Product identifier</u> Iron(II) ethyldiammoniumsulfate	tetrahydrate basic substance secondar	y reference material tracable t	
CAS No:	113193-60-5		
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised	against	
	nces as such or in preparations at indust in (administration, education, entertainn		
Uses advised against Do not use for private purposes	(household)		
1.3. Details of the supplier of the safe	,		
Company name: Street: Place:	AnalytiChem GmbH Stempelstraße 6 D-47167 Duisburg		
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290	
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117	
<u>1.4. Emergency telephone</u> number:	For Hazardous Materials [or Dangero Exposure, or Accident Call CHEMTRI 1-800-424-9300 Outside USA and Ca accepted)	EC Day or Night Within USA and Canada:	
Further Information			

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).



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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible solids Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx) Sulphur oxides

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Avoid contact with skin, eyes and clothes.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures



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Do not breathe dust/fume/gas/mis	st/vapours/spray.	
For emergency responders		
	ergency responders : Personal protection equipment: see section 8	
6.2. Environmental precautions Do not allow to enter into surface v	votor or draina	
6.3. Methods and material for containme For containment	ent and cleaning up	
Cover drains.		
-	e.g. by containment or oil barriers).	
Collect in closed and suitable conta		
	up dust-free and set down dust-free.	
For cleaning up		
Clean contaminated articles and fle	oor according to the environmental legislation.	
Other information		
Provide adequate ventilation.		
Do not breathe dust/fume/gas/mist		
Wear breathing apparatus if expos	ed to vapours/dusts/aerosols.	
6.4. Reference to other sections		
Safe handling: see section 7		
Personal protection equipment: se	e section 8	
Disposal: see section 13		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Advice on safe handling		
-	nts with local exhaust ventilation have to be used.	
Avoid dust formation.		
Do not breathe dust.		
Read label before use.		
Advice on protection against fire and No special fire protection measure	-	
Advice on general occupational hygi	iene	
	clothing immediately. Draw up and observe skin protection programme.	
	ks and after work and take a shower if necessary. When using do not eat	or
drink.		
Further information on handling	raw up and observe skin protection programme	
rake on contaminated clothing. D	raw up and observe skin protection programme.	
	ks and after work and take a shower if necessary.	

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a dry place.

Hints on joint storage

No data available

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

Laboratory chemicals



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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 are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Full protection suit

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	No data available
Odour:	No data available



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	No data available	
Melting point/freezing point:	No data available	
Boiling point or initial boiling point and	No data available	
boiling range:		
Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not determined	
Auto-ignition temperature:	not determined	
pH-Value:	No data available	
Viscosity / kinematic:	not determined	
Solubility in other solvents		
not determined		
Dissolution rate:	No data available	
Partition coefficient n-octanol/water:	No data available	
Dispersion stability:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	not determined	
Density: Relative density:	No data available No data available	
Bulk density:	No data available	
Relative vapour density:	not determined	
Particle characteristics:	No data available	
9.2. Other information		
Information with regard to physical hazar Explosive properties	u classes	
No data available		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	not determined	
Gas:	not applicable	
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	100%	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
not determined:		
Viscosity / dynamic:	not determined	
Flow time:	not determined	
Further Information		
not determined		
SECTION 10: Stability and reactivity		
10.1. Reactivity		

10.1. Reactivity

No data available

10.2. Chemical stability

No data available



according to Regulation (EC) No 1907/2006

an analyti chem brand	according to Regulation (EC) No 1907/2006		
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10.3. Possibility of hazardous reaction	ons		
<u>10.4. Conditions to avoid</u> No data available			
<u>10.5. Incompatible materials</u> No data available			
10.6. Hazardous decomposition prod In case of fire may be liberated: SECTION 5: Firefighting measu	:		
Further information No data available			
SECTION 11: Toxicological inform	nation		
11.1. Information on hazard classes a	as defined in Regulation (EC) No 1272/2008		
Toxicocinetics, metabolism and d No data available	listribution		
Acute toxicity Based on available data, the cla May cause respiratory irritation.			
Irritation and corrosivity Based on available data, the cla	assification criteria are not met.		
Sensitising effects Based on available data, the cla	assification criteria are not met.		
Carcinogenic/mutagenic/toxic effective Based on available data, the cla	•		
STOT-single exposure Based on available data, the cla	assification criteria are not met.		
STOT-repeated exposure Based on available data, the cla	assification criteria are not met.		
Aspiration hazard Based on available data, the cla	assification criteria are not met.		
Information on likely routes of ex No data available	posure		
Specific effects in experiment on No data available	an animal		
Additional information on tests No data available			
Practical experience No data available			
11.2. Information on other hazards			
Endocrine disrupting properties No data available			
Other information			

No data available

Further information

No data available



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SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

log Pow: -5,3 (MSDS)

No indication of bioaccumulation potential.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Inland waterways transport (ADN)
14.1. UN number or ID number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Marine transport (IMDG)
14.1. UN number or ID number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Air transport (ICAO-TI/IATA-DGR)
14.1. UN number or ID number:
14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
14.6. Special precautions for user			
No dangerous good in sense of this t	ransport regulation.		
14.7. Maritime transport in bulk according	to IMO instruments		
not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture		
EU regulatory information			
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)		
National regulatory information			
Water hazard class (D):	2 - obviously hazardous to water		
15.2. Chemical safety assessment			
For this substance a chemical safety	assessment has not been carried out.		

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9,12.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%