

P332 + P313

P337 + P313

P403 + P233

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HazTech Systems, Inc. SAFETY DATA SHEET

Revision number: 2 **Revision date:** 07/08/2015

SAFETY DATA SHEET

Product name:	Ammonium iron(II) sulfate hexahydrate	
Product code:	RE2333	
Synonyms:	Ammonium iron(II) sulfate, Mohr's salt, Ammonium ferrous sulfate hexahydrat	
CAS:	7783-85-9	
RTECS #	BR6500000	
CI#:	Not available	
Recommended use:	Laboratory chemicals, Manufacture of substances	
Uses advised against:	No information available	
Company:		
HazTech Systems, Inc.	Chemical Emergencies:	
3919 Bootjack Lane Mariposa, CA 95338 U.S.A.	HazTech Systems, Inc. (8:00am - 5:00pm) PST	
Telephone:	1-800-543-5487 Transportation Emergencies:	
1-800-543-5487 / 1-209-966-	-8088 Chemtrec 24-Hour	
Fax:	1-800-424-9300 (U.S.A.)	
1-209-966-8089	1-703-527-3887 (International)	
e-mail:		
sales@hazcat.com www.hazcat.com		
2. HAZARD(S) IDENTIFICA	ATION	
Classification of the substance		
	ance with 29 CFR 1910 (OSHA HCS)	
Skin irritation (Category 2), H3		
Eye irritation (Category 2A), H.		
	ingle exposure (Category 3), Respiratory system, H335	
	nents mentioned in this Section, see Section 16.	
GHS Label elements, includi	ng precautionary statements	
Pictogram		
	\sim	
Signal word	Warning	
Hazard statement(s)		
H315	Causes skin irritation.	
H319	Causes serious eve irritation.	
H335	May cause respiratory irritation.	
	May cause respiratory initiation.	
Precautionary statement(s)		
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.	
P264	Wash skin thoroughly after handling.	
P271	Use only outdoors or in a well -ventilated area.	
P280	Wear eye protection/ face protection.	
P280	Wear protective gloves.	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing	
P305 + P351 + P338	Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove	
	contact lenses, if present and easy to do. Continue rinsing.	

If skin irritation occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

Store locked up.

Hazards not otherwise classified (HNOC) or not covered by GHS

Store in a well -ventilated place. Keep container tightly closed.

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Dispose of contents/ container to an approved waste disposal plant.

- none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Synonyms	:	Ammonium iron(II) sulfate
		Mohr's salt
		Ammonium ferrous sulfate hexahydrate
Formula	:	H_8 FeN ₂ O ₈ S ₂ · 6H ₂ O
Molecular weight	:	392.14 g/mol
CAS -No.	:	7783 -85 -9
EC-No.	:	233 -151 -8
II.		

Hazardous components

Component	Classification	Concentration
Ammonium ferrous sulfate hexahydrate		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	<=100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Nitrogen oxides (NOx), Sulphur oxides, Iron oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Air and light sensitive. Store under inert gas.

Storage class (TRGS 510): Non Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Components with won		arameters		
Component	CAS -No.	Value	Control	Basis
			parameters	
Ammonium ferrous	7783 -85 -9	TWA	1.000000	USA. ACGIH Threshold Limit Values
sulfate hexahydrate			mg/m3	(TLV)
	Remarks	Upper Respiratory Tract irritation Skin irritation varies		
		TWA	1.000000	USA. NIOSH Recommended
			mg/m3	Exposure Limits

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact

Material : Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material : Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Product Code(s) RE2333 Ammonium iron(II) sulfate hexahydrate

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	9. PHYSICAL AND CHEMICAL PROPERTIES				
Inf	Information on basic physical and chemical properties				
a)	Appearance	Form: solid			
b)	Odour	No data available			
c)	Odour Threshold	No data available			
d)	pН	No data available			
e)	Melting point/freezing	Melting point/range : 100 ° C (212 °F) - dec.			
	point				
f)	Initial boiling point and	No data available			
	boiling range				
g)	Flash point	Not applicable			
h)	Evaporation rate	No data available			
i)	Flammability (solid, gas)	No data available			
j)	Upper/lower	No data available			
	flammability or				
	explosive limits				
k)	Vapour pressure	No data available			
l)	Vapour density	No data available			
m)	Relative density	No data available			
n)	Water solubility	No data available			
o)	Partition coefficient: n -	No data available			
	octanol/water				
p)	Auto-ignition	No data available			
17	temperature				
q)	Decomposition	No data available			
Þ	temperature				
r)	Viscosity	No data available			
s)	Explosive properties	No data available			
t)	Oxidizing properties	No data available			
,	er safety information				
	· · · · · ·				

No data available

10. STABILITY AND REACTIVITY

ReactivityNo data availableChemical stabilityStable under recommended storage conditions.Possibility of hazardous reactionsNo data availableConditions to avoidLight. AirIncompatible materialsStrong acids, Strong oxidizing agentsHazardous decomposition productsOther decomposition products - No data availableIn the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity No data available Inhalation : No data available Dermal : No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available

TOXICOLOGICAL INFORMATION 11. Carcinogenicity No component of this product present at levels greater than or equal to 0.1% is identified as IARC: probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a ACGIH: carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. **Reproductive toxicity** No data available No data available Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS : BR6500000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. ECOLOGICAL INFORMATION 12. Toxicity No data available Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging**

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3077 Class : 9 Packing group : III Proper shipping name : Environmentally hazardous substances, solid, n.o.s. (Ammonium ferrous sulfate hexahydrate) Reportable Quantity (RQ): 1000 lbs Poison Inhalation Hazard : No IMDG Not dangerous goods IATA Not dangerous goods 15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Product Code(s) RE2333 Ammonium iron(II) sulfate hexahydrate

15. REGULATORY INFORMATION

Massachusetts Right To Know Components		
	CAS -No.	Revision Date
Ammonium ferrous sulfate hexahydrate	7783 -85 -9	1993 -04 -24
Pennsylvania Right To Know Components		
	CAS -No.	Revision Date
Ammonium ferrous sulfate hexahydrate	7783 -85 -9	1993 -04 -24
New Jersey Right To Know Components		
	CAS -No.	Revision Date
Ammonium ferrous sulfate hexahydrate	7783 -85 -9	1993 -04 -24
California Prop. 65 Components		

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.			
H319 Causes serious eye irritation.	Causes serious eye irritation.		
H335 May cause respiratory irritation.	May cause respiratory irritation.		
Skin Irrit. Skin irritation	Skin irritation		
STOT SE Specific target organ toxicity - single exposu	ıre		
HMIS Rating			
Health hazard : 2			
Chronic Health Hazard :			
Flammability : 0			
Physical Hazard 0			
NFPA Rating			
Health hazard : 2			
Fire Hazard : 0			
Reactivity Hazard : 0			

Revision Date: Prepared by: 07/08/2015 HazTech Systems, Inc.

This information is based on HazTech Systems, Inc.'s, 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.