Safetv data sheet

CHEMICALS, INC.	Page 1/7 Safety data sheet according to 1907/2006/EC, Article 31	
P	Printing date 20.07.2021 Revision: 20.07.2021	
	SECTION 1: Identification of the substance/mixture and of the company/undertaking	
	· 1.1 Product identifier	
	· Trade name: Iron(III) perchlorate hydrate (yellow)	
	 Item number: 93-2620 CAS Number: 15201-61-3 EC number: 236-908-0 I.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. 	
	 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com 	
	 Further information obtainable from: Technical Department 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600 	
	SECTION 2: Hazards identification	
	 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS03 flame over circle 	
	Ox. Sol. 2 H272 May intensify fire; oxidiser.	
	GHS07	
	Skin Irrit. 2 H315 Causes skin irritation.	
	Eye Irrit. 2 H319 Causes serious eye irritation.	
-	STOT SE 3 H335 May cause respiratory irritation.	
	 • 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 	
	GHS03 GHS07	
	· Signal word Danger	
	· Hazard-determining components of labelling:	

Hazard-determining components of labelling: Iron(III) perchlorate hydrate (yellow)

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· Hazard statement	nts
H272 May inten.	sify fire; oxidiser.
H315 Causes ski	in irritation.
H319 Causes set	rious eye irritation.
	e respiratory irritation.
· Precautionary s	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P221	Take any precaution to avoid mixing with combustibles.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazard	ds
· Results of PBT of	and vPvB assessment
· PBT: Not applic	able.
• vPvB: Not appli	cable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 15201-61-3 Iron(III) perchlorate hydrate (yellow)
- · Identification number(s)
- EC number: 236-908-0

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · 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 No further relevant information available.

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- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 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 Ensure good ventilation/exhaustion at the workplace.

- · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities • Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- · 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. Avoid contact with the eyes and skin.

• 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.

• Protection of hands:



Protective gloves

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ade name: Iron(III) perchlorate hydrate ((vellow)
ale name. 110n(111) perchiorale nyurale (yeuow)
	(Contd. of page le and resistant to the product/ the substance/ the preparation. n to the glove material can be given for the product/ the preparation/ t
	eration of the penetration times, rates of diffusion and the degradation
The selection of the suitable gloves does varies from manufacturer to manufacture	not only depend on the material, but also on further marks of quality a er.
	e found out by the manufacturer of the protective gloves and has to
observed. • Eye protection:	
Tightly sealed goggles	
• 9.1 Information on basic physical and c	hemical properties
· General Information	
· Appearance: Form:	Crystalline
Colour:	Yellow
· Odour:	Odourless
• Odour threshold:	Not determined.
· pH-value:	Not applicable.
• Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
• Vapour density • Evaporation rate	Not applicable. Not applicable.
-	approved
• Solubility in / Miscibility with water:	Insoluble.
	Not determined.
· Partition coefficient: n-octanol/water:	
Partition coefficient: n-octanol/water: Viscosity:	
••	Not applicable.

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· Solvent content: Organic solvents: VOC (EC)	0.0 % 0.00 %
Solids content: • 9.2 Other information	100.0 % No further relevant information available.

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.
- 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: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- \cdot Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- \cdot Germ cell mutagenicity Based on available data, the classification criteria are not met.
- \cdot 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
- May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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.

14.1 UN-Number ADR, IMDG, IATA	UN1481
14.2 UN proper shipping name ADR IMDG, IATA	1481 PERCHLORATES, INORGANIC, N.O.S. PERCHLORATES, INORGANIC, N.O.S.
14.3 Transport hazard class(es)	
ADR	
Class	5
Label	5.1
Class Label	5.1 Oxidising substances. 5.1
	5.1
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
EMS Number:	F-A,S-Q
Segregation groups	Perchlorates
Stowage Category	
Segregation Code	SG38 Stow "separated from" ammonium compounds. SG49 Stow "separated from" cyanides
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.



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· Transport/Additional information:	
· ADR	
\cdot Limited quantities (LQ)	1 kg
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· IMDG	
· Limited quantities (LQ)	1 kg
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· UN ''Model Regulation'':	UN 1481 PERCHLORATES, INORGANIC, N.O.S., 5.1, II

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 P8 OXIDISING LIQUIDS AND SOLIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- 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 Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Sol. 2: Oxidizing solids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3