ooo philip harris

SAFETY DATA SHEET

IRON (III) CHLORIDE HEXAHYDRATE

Page: 1

Compilation date: 19/05/2015

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: IRON (III) CHLORIDE HEXAHYDRATE

CAS number: 10025-77-1

EINECS number: 231-729-4

Product code: A68500,A68512

Synonyms: FERRIC CHLORIDE HEXAHYDRATE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Laboratory Chemicals, Manufacture of Substances.

1.3. Details of the supplier of the safety data sheet

Company name: PHILIP HARRIS

	2 Gregory Street
	Hyde
	Cheshire
	SK14 4HR
	United Kingdom
Tel:	+44 (0)845 1200 506
Fax:	+44 (0)161 367 2140
Email:	enquiries@philipharris.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 845 1200 506

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xn: R22

Classification under CLP: Acute Tox. 4: H302; Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Irrit. 2: H315

Most important adverse effects: Harmful if swallowed.

2.2. Label elements

Label elements:Hazard statements:H290: May be corrosive to metals.H302: Harmful if swallowed.H315: Causes skin irritation.H318: Causes serious eye damage.Signal words:DangerHazard pictograms:GHS05: Corrosion

GHS07: Exclamation mark

IRON (III) CHLORIDE HEXAHYDRATE



 Precautionary statements:
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

 P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.

 P302+352: IF ON SKIN: Wash with plenty of water/.

 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P310: Immediately call a POISON CENTER/doctor/.

 P321: Specific treatment (see instructions on this label).

Label elements under CHIP:

Hazard symbols: Harmful.



Risk phrases: R22: Harmful if swallowed.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: IRON (III) CHLORIDE HEXAHYDRATE

CAS number: 10025-77-1

EINECS number: 231-729-4

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water. Never give anything by mouth to an unconcious person Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If breathing is irregular or stopped, administer artifical respiration. Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Page: 2

IRON (III) CHLORIDE HEXAHYDRATE

		raye.	5
4.3. Indication of any immediat	e medical attention and special treatment needed		
Immediate / special treatment:	The most important known symptoms and effects are described in the labelling (see		
	section 2.2) and/or in section 11		
Section 5: Fire-fighting measu	res		
5.1. Extinguishing media			
Extinguishing media:	Suitable extinguishing media for the surrounding fire should be used. CO2,		
	extingushing powder or water jet. Fight larger fires with water jet or alcohol-resistant		
	foam.		_
5.2. Special hazards arising fro	om the substance or mixture		
Exposure hazards:	In combustion emits toxic fumes. In combustion emits toxic fumes of hydrogen chloride /		
	phosgene. Iron Oxides		
5.3. Advice for fire-fighters			
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact		-
	with skin and eyes.		
Section 6: Accidental releases	·		
Section 6: Accidental release measures			
6.1. Personal precautions, prot	ective equipment and emergency procedures		
Personal precautions:	Refer to section 8 of SDS for personal protection details. Avoid dust formation. Avoid		
	breathing vapors, mist or gas. Use personal protective equipment. Avoid dust formation.		
	Avoid breathing vapours, mist or gas. Ensure adequate ventiliation. Evacuate personnel		
	to a safe area.		
6.2. Environmental precautions	5		
Environmental precautions:	Do not discharge into drains or rivers.		
6.3. Methods and material for c	containment and cleaning up		
Clean-un procedures	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in		
	suitable closed containers for disposal.		
6.4. Reference to other section			
	Refer to section 8 of SDS. Refer to section 13 of SDS.		
Section 7: Handling and storage			
7.1. Precautions for safe handl	ing		
Handling requirements:	Avoid the formation or spread of dust in the air. Provide appropriate exhaust ventilation at		
	places where dust is formed. Avoid contact with skin & eyes. Avoid formation of dust &		
	aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate		
	exhaust ventilation at places where dust is formed.		

IRON (III) CHLORIDE HEXAHYDRATE

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Tightly Closed. Dry. Store under inert gas.

7.3. Specific end use(s)

Specific end use(s): Apart from uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls	
Engineering measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands
	before breaks and at the end of workday.
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full face
	particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a back up
	to engineering controls. If the respirator is the sole means of protection use a full face
	supplied air respirator. Use respirators and components tested & approved under
	appropriate government standards eg CEN (EU) or NIOSH (US).
Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal
	technique (without touching the gloves outer surface) to avoid skin contact with this
	product. Dispose of contaminated gloves after use.
	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)
Eye protection:	Safety glasses. Face shield and safety glasses. Use equipment for eye protection test
	and approved under approperiate government statments such as NIOSH (US) or EN
	166(EU) Ensure eye bath is to hand.
Skin protection:	Protective clothing. The type of protective equipment must be selected according to the
	concentration and amount of the dangerous substance at the specific workplace.

Section 9: Physical and chemical properties

IRON (III) CHLORIDE HEXAHYDRATE

9.1. Information on basic physical and chemical properties

State:	Crystals	
Colour:	Yellow	
Evaporation rate:	No data available.	
Oxidising:	No data available.	
Solubility in water:	No data available.	
Viscosity:	No data available.	
Boiling point/range°C:	280-285 Melting point/range°C:	37
Flammability limits %: lower:	No data available. upper:	No data available.
Flash point°C:	No data available. Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available. Vapour pressure:	No data available.
Relative density:	No data available. pH:	No data available.
VOC g/l:	No data available.	

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Exposure to moisture.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. forms shock-sensitive mixtures with certain other

materials. Sodium. Potassium.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes. In the event of fire see section 5.

Section 11: Toxicological information

11.1. Information on toxicological effects

Page: 5

IRON (III) CHLORIDE HEXAHYDRATE

Page: 6

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	900	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods		
Disposal operations:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or	
	mix the material with a combustible solvent and burn in a chemical incinerator equipped	
	with an afterburner and scrubber.	
Disposal of packaging:	Dispose of as unused product.	
NB:	The user's attention is drawn to the possible existence of regional or national	
	regulations regarding disposal.	

IRON (III) CHLORIDE HEXAHYDRATE

Page: 7

Marine pollutant: No

Section 14: Transport information

14.1. UN number

UN number: UN3260

14.2. UN proper shipping name

Shipping name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: |

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 1

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture

by the supplier.

Section 16: Other information

Other information

Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H290: May be corrosive to metals.
	H302: Harmful if swallowed.
	H315: Causes skin irritation.
	H318: Causes serious eye damage.
	R22: Harmful if swallowed.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive
	and shall be used only as a guide. This company shall not be held liable for any
	damage resulting from handling or from contact with the above product.