

Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 1/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

# **Safety Data Sheet**

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 4100/FERRIC-CHLORIDE
Product name FERRIC CHLORIDE 40%

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Industrial use. Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Name Technic UK (Lektrachem Ltd)

Full address Unit 9 Liberty Way, Attleborough Fields Ind Estate

District and Country CV11 6R Nuneaton, Warks

United Kingdom

Tel. +44 (0) 2476 374999 Fax +44 (0) 247 6374004

e-mail address of the competent person

responsible for the Safety Data Sheet sales@technicuk.co.uk

1.4. Emergency telephone number

For urgent inquiries refer to +44 (0) 2476 374999 - 08:30 - 17: 00 Monday to Friday - or you can call the nearest

hospital showing the SDS

#### **SECTION 2. Hazards identification**

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Substance or mixture corrosive to metals, category 1 H290 May be corrosive to metals. Acute toxicity, category 4 H302 Harmful if swallowed.

Skin corrosion, category 1 H314 Causes severe skin burns and eye damage.

Serious eye damage, category 1 H318 Causes serious eye damage.

#### 2.2. Label elements



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 2/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





Signal words: Danger

Hazard statements:

**H290** May be corrosive to metals. **H302** Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P234 Keep only in original packaging.

P270 Do not eat, drink or smoke when using this product.
P302+P352 IF ON SKIN: wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

**P501** Dispose of contents / container in accordance with the regulations on hazardous waste.

Contains: FERRIC CHLORIDE

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

#### **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

FERRIC CHLORIDE

CAS 7705-08-0  $30 \le x < 50$  Met. Corr. 1 H290, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 231-729-4 LD50 Oral: 450

INDEX -

REACH Reg. 01-2119497998-05

The full wording of hazard (H) phrases is given in section 16 of the sheet.

#### **SECTION 4. First aid measures**



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 3/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

#### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

In case of fire, harmful fumes are generated.

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Hydrogen chloride (HCI). Chlorides.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 4/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store at temperatures between 10 ° and 30 \* C.

#### 7.3. Specific end use(s)

Information not available

#### **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

# FERRIC CHLORIDE Threshold Limit Value Type Country TWA/8h STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm WEL GBR 1 2



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 5/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use. Use chemical resistant gloves (e.g. nitrile).

#### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Colour

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

# **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Properties Value Information
Appearance liquid

dark brown

Odour not available
Melting point / freezing point -2 °C
Initial boiling point > 100 °C



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 6/15

Replaced revision:2 (Printed on: 30/08/2019)

4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Flammability not available
Lower explosive limit not available
Upper explosive limit not available
Flash point > 60 °C
Auto-ignition temperature not available

pH <2

Kinematic viscosity

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

Density and/or relative density

Relative vapour density

Particle characteristics

not available

1,2-1,45

not available

#### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

FERRIC CHLORIDE

May react with: alkalis, metals.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 7/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

10.5. Incompatible materials

FERRIC CHLORIDE

Avoid contact with: strong acids, strong alkalis, oxidising substances, metals.

10.6. Hazardous decomposition products

FERRIC CHLORIDE

In decomposition develops: hydrochloric acid, chlorides.

# **SECTION 11. Toxicological information**

11	1.1	١.	Inf	orr	nat	ion	on	haza	ard	clas	sses	as	defi	ned	in	Reg	Julat	ion	(EC	) 1	VО	127	2/2	800	i
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Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture: Not classified (no significant component) 900,00 mg/kg

Not classified (no significant component)



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 8/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

FERRIC CHLORIDE LD50 (Dermal): > 2000 mg/kg Rat LD50 (Oral): 450 mg/kg Rat SKIN CORROSION / IRRITATION Corrosive for the skin Classification according to the experimental Ph value SERIOUS EYE DAMAGE / IRRITATION Causes serious eye damage RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class Respiratory sensitization Information not available Skin sensitization Information not available GERM CELL MUTAGENICITY Does not meet the classification criteria for this hazard class CARCINOGENICITY

Does not meet the classification criteria for this hazard class



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 9/15

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

		Replaced revision:2 (Printed on: 30/08/2019)								
REPRODUCTIVE TOXICITY										
loes not meet the classification criteria for this hazard class										
Adverse effects on sexual function and fertility										
nformation not available										
Adverse effects on development of the offspring										
nformation not available										
Effects on or via lactation										
nformation not available										
STOT - SINGLE EXPOSURE										
Does not meet the classification criteria for this hazard class										
Target organs										
nformation not available										
Route of exposure										
nformation not available										
STOT - REPEATED EXPOSURE										
Does not meet the classification criteria for this hazard class										



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 10/15

Replaced revision:2 (Printed on: 30/08/2019)

4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Target organs

Information not available

Route of exposure

Information not available

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

# **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

Information not available

#### 12.2. Persistence and degradability

Information not available

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 11/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available

### **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

#### 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 2582

#### 14.2. UN proper shipping name

ADR / RID: FERRIC CHLORIDE SOLUTION IMDG: FERRIC CHLORIDE SOLUTION IATA: FERRIC CHLORIDE SOLUTION

#### 14.3. Transport hazard class(es)

ADR / RID: Class: 8 Label: 8

IMDG: Class: 8 Label: 8

IATA: Class: 8 Label: 8



#### 14.4. Packing group

ADR / RID, IMDG, IATA:



4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 12/15

Replaced revision:2 (Printed on: 30/08/2019)

#### 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

#### 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 80 Limited Tunnel

Quantities: 5 restriction code: (E)

Special provision: -IMDG: EMS: F-A, S-B Limited

Quantities: 5

Cargo: Maximum

Packaging quantity: 60 L instructions:

856

Packaging Passengers: Maximum

quantity: 5 L instructions: 852

Special provision: A3, A803

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

#### **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

IATA:

Point 3

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 13/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

#### **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Met. Corr. 1 Substance or mixture corrosive to metals, category 1

Acute Tox. 4 Acute toxicity, category 4

Skin Corr. 1 Skin corrosion, category 1

Eye Dam. 1 Serious eye damage, category 1

Skin Irrit. 2 Skin irritation, category 2
H290 May be corrosive to metals.
H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.H315 Causes skin irritation.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- · CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 14/15

Replaced revision:2 (Printed on: 30/08/2019)

# 4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

IMO: International Maritime Organization

INDEX: Identifier in Annex VI of CLP

LC50: Lethal Concentration 50%

LD50: Lethal dose 50%

OEL: Occupational Exposure Level

PBT: Persistent bioaccumulative and toxic as REACH Regulation

PEC: Predicted environmental Concentration

PEL: Predicted exposure level

PNEC: Predicted no effect concentration

REACH: Regulation (EC) 1907/2006

RID: Regulation concerning the international transport of dangerous goods by train

TLV: Threshold Limit Value

TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.

TWA: Time-weighted average exposure limit

TWA STEL: Short-term exposure limit

VOC: Volatile organic Compounds

vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation

WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament

- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
   Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
   Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP) 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.



Revision nr. 3

Dated 02/05/2022

Printed on 25/01/2023

Page n. 15/15

Replaced revision:2 (Printed on: 30/08/2019)

4100/FERRIC-CHLORIDE - FERRIC CHLORIDE 40%

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 08 / 09 / 11 / 12 / 15 / 16.