


SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
<b>1.1 Product Identifiers</b>	
Product Name	Iron (Fe)
Cat. No.	SI3821
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against.</b>	For <i>in-vitro</i> diagnostic use Do not pipette by mouth. Handle laboratory reagents in accordance with Good Laboratory Practice.
<b>1.3 Details of the supplier of the safety data sheet</b>	
Company	Randox Laboratories Ltd., 55 Diamond Road, Crumlin, Co. Antrim, United Kingdom, BT29 4QY
Telephone	+44 (0) 28 9442 2413
Fax	+44 (0) 28 9445 2912
E-mail Address	<a href="mailto:sds@randox.com">sds@randox.com</a>
Website	www.randox.com
<b>1.4 Emergency Telephone Number</b>	
Emergency Phone No.	+44 (0) 28 9442 2413 (GMT, English spoken, Mon - Fri. 08.40-17.20)

SECTION 2. HAZARDS IDENTIFICATION	
<b>2.1 Classification of the substance or mixture</b>	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	<b>R1. Buffer &amp; R2. Chromagen</b> Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319
2.1.2 Additional Information	Not applicable
<b>2.2 Label Elements</b>	
<b>Labelling according to Regulation (EC) No. 1272/2008 [CLP]</b>	
Product Name	Iron
Hazard Pictogram (s)	<b>R1. Buffer &amp; R2. Chromagen</b> 
Signal Word (s)	<b>R1. Buffer &amp; R2. Chromagen</b> Warning
Hazard Statement (s)	<b>R1. Buffer &amp; R2. Chromagen</b> Acute Tox. 4: H302 - Harmful if swallowed. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation.
Precautionary Statement (s)	<b>R1. Buffer &amp; R2. Chromagen</b> P264 - Wash thoroughly after handling. P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of 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.

	P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P501 - Dispose of contents/container according to local / national guidelines
Supplemental Hazard information (EU)	Not applicable
<b>2.3 Other Hazards</b>	None

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS					
3.1 Substances – Not applicable					
3.2 Mixtures					
EC Classification No. 1272/2008					
Component Name	Hazardous Chemical	Concentration (% w/v)	CAS No.	REACH Reg. No.	Hazard Statement(s)
R1 Buffer	Guanidinium chloride	40 - 50%	50-01-1	Not Applicable	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315
	Thiocarbamide	0.5 – 1%	62-56-6	Not Applicable	Carc. 2: H351; Repr. 2: H361d; Acute Tox. 4: H302; Aquatic Chronic 2: H411;
R2 Chromagen	Guanidinium chloride	30 - 40%	50-01-1	Not Applicable	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315

SECTION 4. FIRST AID MEASURES	
<b>4.1 Description of first aid measures</b>	
Inhalation	If inhaled, move victim to fresh air, rest and maintain a half-upright position. Use artificial respiration if necessary. Immediately seek medical attention.
Skin Contact	If skin contact occurs, remove contaminated clothes, rinse skin with plenty of cold water or shower. Seek medical attention.
Eye Contact	If eye contact occurs, first rinse with plenty of cold water for several minutes, then immediately seek medical attention.
Ingestion	If ingested, rinse mouth. Do not induce vomiting. Give plenty of water to drink. Immediately seek medical attention.
Self-protection of the first aider	Wear appropriate personal protective equipment (see section 8.2.2)
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Causes serious eye irritation
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Call an internal person trained in First Aid if available, or contact a physician.

SECTION 5. FIREFIGHTING MEASURES	
<b>5.1 Extinguishing media</b>	As appropriate for surrounding fire
<b>5.2 Special hazards arising from the substance or mixture</b>	May emit toxic fumes under fire conditions.
<b>5.3 Advice for firefighters</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6. ACCIDENTAL RELEASE MEASURES	
<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Wear appropriate Personal Protective Equipment e.g. laboratory coat, gloves, safety glasses and mask.
<b>6.2 Environmental Precautions</b>	Not determined
<b>6.3 Methods and materials for containment and cleaning up</b>	Use appropriate spill absorbent kit as instructed by the manufacturer. Alternatively mop up with an absorbent material and hold for waste disposal.
<b>6.4 Reference to other sections</b>	Refer to Section 8 & 13

SECTION 7. HANDLING AND STORAGE	
<b>7.1 Precautions for safe handling</b>	Wear personal protective equipment (see section 8.2.2). Wash thoroughly after handling. Do not use if skin is cut or scratched. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store at temperatures and conditions as indicated on the product label.
<b>7.3 Specific end use (s)</b>	For <i>in-vitro</i> diagnostic use

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
<b>8.1 Control Parameters</b>	Not determined
<b>8.2 Exposure Controls</b>	
<b>8.2.1 Appropriate engineering controls</b>	Ensure adequate ventilation.
<b>8.2.2 Personal protective equipment</b>	
Eye/Face Protection	Approved safety glasses
Hand Protection	Standard laboratory rubber or latex gloves
Skin Protection	A laboratory coat is recommended
Respiratory Protection	Appropriate respiratory protection
<b>8.2.3 Environmental Exposure Controls</b>	Not determined

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES	
<b>9.1 Information on basic physical and chemical properties</b>	
Appearance	R1 & R2 - Liquid
Colour	R1 – Colourless R2 – Pale Yellow/Brown
Odour	Not determined
Odour threshold (ppm)	Not determined
pH	Not determined
Melting point / Freezing point	Not determined

Initial boiling point and boiling range	Not determined
Flash point (°C)	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour pressure	Not determined
Vapour Density	Not determined
Relative Density	Not determined
Solubility(ies)	Not applicable
Partition coefficient: (n-octanol/water)	Not determined
Auto ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity (mPa.s)	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined
<b>9.2 Other information</b>	Not determined

<b>SECTION 10. STABILITY AND REACTIVITY</b>	
<b>10.1 Reactivity</b>	Not determined
<b>10.2 Chemical Stability</b>	Stable under recommended storage conditions
<b>10.3 Possibility of hazardous reactions</b>	Not determined
<b>10.4 Conditions to avoid</b>	Not determined
<b>10.5 Incompatible materials</b>	Not determined
<b>10.6 Hazardous decomposition products</b>	Not determined

<b>SECTION 11. TOXICOLOGICAL INFORMATION</b>	
<b>11.1 Information on toxicological effects</b>	
<u>Acute toxicity</u>	Not determined
Ingestion	Not determined
Inhalation	Not determined
Skin Contact	Not determined
Eye Contact	Not determined
Skin corrosion/irritation	Not determined
Serious eye damage/eye irritation	Not determined
Respiratory or skin sensitization	Not determined
Germ cell mutagenicity	Not determined
Carcinogenicity	Not determined

Reproductive toxicity	Not determined
Summary of evaluation of the CMR properties	Not determined
STOT – Single exposure	Not determined
STOT- Repeated exposure	Not determined
Aspiration hazard	Not determined
<b>11.2 Other information</b>	Not determined

SECTION 12. ECOLOGICAL INFORMATION	
<b>12.1 Toxicity</b>	Not determined
<b>12.2 Persistence and degradability</b>	Not determined
<b>12.3 Bioaccumulative potential</b>	Not determined
<b>12.4 Mobility in soil</b>	Not determined
<b>12.5 Results of PBT and vPvB assessment</b>	Not determined
<b>12.6 Other adverse effects</b>	Not determined
<b>12.7 Additional information</b>	Not determined

SECTION 13. DISPOSAL CONSIDERATIONS	
<b>13.1 Waste Treatment Methods</b>	Each disposal facility must determine proper disposal methods of the substance or mixture and any contaminated packaging to comply with Local and National Environment Regulations. Refer to section 6.
<b>13.2 Additional Information</b>	Not determined

SECTION 14. TRANSPORT INFORMATION	
<b>14.1 UN Number</b>	Not classified as hazardous for transport
<b>14.2 UN Proper Shipping Name</b>	Not determined
<b>14.3 Transport hazard class (es)</b>	Not applicable
<b>14.4 Packing Group</b>	Not applicable
<b>14.5 Environmental Hazards</b>	Not determined
<b>14.6 Special Precautions for User</b>	Refer to section 7
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable

## SECTION 15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EU) 2015/830

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

Not determined

### 15.2 Chemical Safety Assessments

A CSA has not been carried out

## SECTION 16. OTHER INFORMATION

### Text of Hazard Statements in Section 3

Acute Tox. 4: H302 - Harmful if swallowed.  
 Skin Irrit. 2: H315 - Causes skin irritation.  
 Eye Irrit. 2: H319 - Causes serious eye irritation.  
 Carc. 2: H351 - Suspected of causing cancer .  
 Repr. 2: H361d - Suspected of damaging the unborn child.  
 Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

The information provided herein is believed to be correct as of the date hereof but does not purport to be all-inclusive and shall be used only as a guide. The information present in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The recipient of our products is responsible for observing any National Laws and guidelines applicable.