

SAFETY DATA SHEET

Creation Date 13-Dec-2011

Revision Date 16-Jul-2013

Revision Number 2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description: Cat No.

KLIGLER IRON AGAR

CM0033

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

Recommended Use Uses advised against Laboratory chemicals No Information available

1.3. Details of the supplier of the safety data sheet

Company

Oxoid Ltd Wade Road

Basingstoke, Hants, UK

RG24 8PW

Tel: +44 (0) 1256 841144

mbd-sds@thermofisher.com

Basingstoke, Hants, UK RG24 8PW Telephone: +44 (0) 1256 841144

Supplier Oxoid Ltd.

Wade Road

E-mall address

mbd-sds@thermofisher.com

1.4. Emergency telephone number

Carechem 24: +44 (0) 1865 407333

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Not hazardous

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

Classification according to EU Directives 67/548/EEC or 1999/45/EC

R-phrase(s)

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

2.2. Label elements

Signal Word

Hazard Statements

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Precautionary Statements

2.3. Other hazards

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Component	CAS-No	EC-No.	Weight %	GLP Classification - Regulation (EG) No 1272/2008	DSD Classification - 67/548/EEC
Iron (III) Citrate	2338-05-8	EEC No. 219-045-4	0.55	+	

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact

Rinse thoroughly with plenty of water, also under the eyelids. Obtain medical attention if

Wash off with warm water and soap. Get medical attention if irritation develops and persists...

irritation persists.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Inhalation Move to fresh air. Get medical attention if symptoms occur..

Protection of First-alders

Skin Contact

No special precautions required.

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

Ingestion mey ceuse gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Notes to Physician

Treat symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

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

Extinguishing media which must not be used for safety reasons Use extinguishing method compatible with surroundings.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Hazardous Combustion Products None under normal use conditions

5.3. Advice for firefighters

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As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment, Avoid dust formation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

European Union

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits List source(s):

UK - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. IRE - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

The United Kingdom

STEL: 2 mg/m3 15 min

Component
Iron (III) Citrate

	TWA: 1 mg/m³ 8 hr			(8 horas)
Italy	Germany	Portugal	The Netherlands	Finland
		TWA: 1 mg/m³ 8 horas		

France

Iron (III) Citrate
Component
Iron (III) Citrate

Austria	Denmark	Switzerland	Poland	Norway
		MAK: 1 mg/m3 8 Stunden		TWA: 1 mg/m ³ 8 time

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TWA / VLA-ED: 1 mg/m

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Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory hodies.

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

Derived No Effect Level (DNEL)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified

Route of exposure Acute effects (local) Acute effects Chronic effects (local) Chronic effects (systemic)

Oral Dermal Inhalation

Predicted No Effect Concentration (PNEC)

According to our experience and to the information provided to us, the product does not have

any harmful effects if it is used and handled as specified.

8.2. Exposure controls

Engineering Measures

None under normal use conditions...

Personal protective equipment Eye Protection

If splashes are likely to occur, wear: Safety glasses with side-shields (European standard - EN

166)

Hand Protection For prolonged or repeated contact use protective gloves

Glove material Breakthrough time Glove thickness EU standard Glove comments
Disposable gloves See manufacturers EN 374 (minimum requirement)
recommendations

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User ausceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrassion. Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Respiratory Protection No protective equipment is needed under normal use conditions.

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are

exceeded or if imitation or other symptoms are experienced..

Recommended Filter type: Particle filter.

Small scale/Laboratory use Maintain adequate ventilation

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls Avoid dust formation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Method - No information available.

Solid

Solid

Solid

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance **Physical State**

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Light orange Powder.

Odor **Odor Threshold**

No data available 7.2 - 7.6

Melting Point/Range

No data available Softening Point No data available **Boiling Point/Range** Not applicable Flash Point

Not applicable **Evaporation Rate** Not applicable

Flammability (solid,gas) **Explosion Limits**

No information available.

No information available

No data available

Vapor Pressure **Vapor Density** Specific Gravity / Density No data available Not applicable No data available

Bulk Density No data available Water Solubility Soluble in water No information available

Solubility in other solvents Partition Coefficient (n-

octanol/water)

Autoignition Temperature Decomposition temperature Viscosity

Not applicable No data available Not applicable

No information available. **Explosive Properties** No information available. **Oxidizing Properties**

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous Reactions

Hazardous polymerization does not occur.

None under normal processing.

10.4. Conditions to avoid

Incompatible products, Excess heat, Avoid dust formation.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal use conditions

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product does not present an acute toxicity hazard based on known or supplied information Product Information

(a) acute toxicity;

Not Classified Oral Not Classified Dermal Not Classified Inhalation

Toxicology data for the components

Not Classified (b) skin corrosion/irritation;

(c) serious eye damage/irritation; **Not Classified**

(d) respiratory or skin sensitization;

Respiratory Skin

Not Classified Not Classified

Not Classified

Not Classified (e) germ cell mutagenicity;

(f) carcinogenicity;

(h) STOT-single exposure;

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Not Classified Not Classified

(i) STOT-repeated exposure; Not Classified

None under normal use conditions.

Target Organs (j) aspiration hazard; Not applicable

Solid

Symptoms / effects, both acute and delayed Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

12.2. Persistence and degradability Persistence

Soluble in water, Persistence is unlikely, based on information available.

Expected to be biodegradable

12.3. Bioaccumulative potential Bioaccumulation is unlikely

12.4. Mobility in soil The product is water soluble, and may spread in water systems. Will likely be mobile in the

environment due to its water solubility. Highly mobile in soils.

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

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This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Persistent Organic Pollutant

Ozone Depletion Potential

Waste from Residues / Unused **Products**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure

complete and accurate classification.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use

empty containers.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific

Other Information

Waste codes should be assigned by the user based on the application for which the product

was used

SECTION & A TRANSPORT INFORMATION

Not regulated IMDG/IMO

14.1. UN number

14.E. UM proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

Not regulated ADR

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

LATA Not regulated

141. UN number

142. UN proper shipping name

143. Transport hazard class(es)

14.4 Packing group

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user

No special precautions required

14.7. Transport in bulk according to Not applicable, packaged goods

Annex II of MARPOL73/78 and the

BC Code

SECTION IS REGULATORY INFORMATION

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

International Inventories

X = listed

Г	Component	EINECS ELINCS NI	LP TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
T	Iron (III) Citrate	219-045-4 -	X	X	-	X)		X	

National Regulations

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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

ICAORATA - International Civil Aviation Organization/International Air

MARPOL - International Convention for the Prevention of Pollution from

ENCS - Japan Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

IARC - International Agency for Research on Cancer

NZIoC - New Zealand Inventory of Chemicals

PNEC - Predicted No Effect Concentration

POW - Partition coefficient Octanol: Water

vPvB - very Persistent, very Bioaccumulative

EC50 - Effective Concentration 50%

TWA - Time Weighted Average

LD50 - Lethal Dose 50%

Transport Association

ATE - Acute Toxicity Estimate

VOC - Volatile Organic Compounds

Ships

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

Full text of R-phrases raferred to under sections 2 and 3

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

Not applicable

Legend

Substances List

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit

ACGIH - American Conference of Industrial Hygiene

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipme LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development **BCF** - Bioconcentration factor

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI,

Merck index,

RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Physical hazards On basis of test data

Health Hazards Calculation method

Environmental hazards Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and

hygiene.

Creation Date 13-Dec-2011 16-Jul-2013 **Revision Date**

Revision Summary

Update to Format. Reason for revision

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

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