MAXICROP PLUS SEQUESTERED IRON 86225608

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Version: 2 / UK & Ireland

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

1.1 Product identifier

Product Name MAXICROP PLUS SEQUESTRED IRON

Product code PPSIYDL / PPSI61L

Market Authorization Number /

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

Use Fertiliser
REACH PC 12

1.3 Details of the supplier of the safety data sheet

Supplier
SBM Life Science Ltd
Hyperion House
Fordham Road
Newmarket
Suffolk
CB8 7XN
GREAT BRITAIN

Phone number +44 (0)1223 677 611

Responsible Department Email: sds@sbm-company.com

1.4 Emergency telephone number

	United Kingdom	Ireland
National Poisons Information Service (NPIS) :	director.birmingham.unit@npis.org www.npis.org/	info@beaumont.ie www.poisons.ie
Emergency telephone number	+44 (0)800 321 3079 (24 Hr)	+353 (1) 809 2166 (8.00am to 10.00 pm 7 days a week)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Physical Hazards:

Not classified

Health and Safety Hazards :

Not classified

Environmental Hazards :

Not classified

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazardous components which must be listed on the label: None

Pictograms of hazards : None

Signal word : None

Hazard statements : None

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P501	Dispose of contents/container in accordance with national regulation.

Additional mentions: None

Additional labelling: None

2.3 Other hazards

No other data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not concerned.

3.2 Mixtures

Chemical nature

Hazardous components

Hazard statements in accordance with Regulation (EC) No. 1272/2008

Ingredients	CAS Number EC Number Index Number	REACH Number / recording	Classification Regulation 1272/2008/EC	Environmental Hazards	Conc % (w/w)
Iron Sulfate II	7720-78-7 231-753-5 026-003-00-7	01-2119513203-57-	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	/	5,0 < x < 10,0

Further information

For full text of H-statements and R sentences : see SECTION 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Have container, label or safety date sheet of the product when you call an emergency number, a poison center, a doctor / physician or when you need to consult for a treatment.
Inhalation	In case of illness, move the victim to fresh air and keep her warm and at rest. If symptoms persist, get medical attention.

Eye contact	Rinse immediately with plenty of water, also under the eyelids during at least 15 minutes. Remove contact lenses if it is possible and continue to rinse. Get medical attention if irritation develops and persists.
Skin contact	Remove contaminated clothing and footwear. Flush skin with water. Wash with water and soap. In case of irritation or redness, get medical attention. Wash clothes before reuse.
Ingestion	Immediately rinse mouth and throat. Drink 1 or 2 glasses of water. DO NOT induce vomiting unless directed to do so by a physician. DO NOT give something to an unconscious person. If vomiting occurs spontaneously, keep airways clear. Give more water when vomiting stops.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	Inhalation of mist or vapours may cause irritation of mucous membranes and upper respiratory tract. Symptoms may include irritation, coughing and tightness of breath. On ingestion of a moderate quantity (150 ml or ~6 fluid oz) symptoms usually occur within twenty minutes and may include nausea, vomiting, diarrhoea and abdominal pain. Symptoms of iron toxicity may occur hours after ingestion and can include rapid heartbeat and shock. Where not washed exposure may result in redness and irritation. Irritation may occur to skin especially when already sore or dry according to contact time. Exposure to eyes will result in immediate pain and tearing.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards	No available data.
Treatments	Desferrioxamine is considered as a chelation therapy in appropriate situations to treat for iron toxicity. This product contains a high sodium salt content.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable	Carbon dioxide (CO_2), dry chemical, water spray, alcohol-resistant foam.
Unsuitable	None known.

5.2 Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture	The breakdown products can be dangerous for the health (oxides of iron, carbon, sodium, nitrogen and sulphur). Do not breathe fumes.

5.3 Advice for firefighters

Special protective equipment for firefighters	Wear protection clothing for all the body, complete equipment. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
Further information	Stay upstream of the flames. Fight fire from protected location or maximum possible distance. Cool the containers of the product with water. Do not let the extinguishing waters going into the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Ensure adequate ventilation. Avoid contacts with skin and eyes. Stop the source of the spill immediately if safe to do so. Avoid contact with strong oxidizing agents.

For emergency responders	Ensure adequate ventilation. Wear an adequate individual protective equipment.

6.2 Environmental precautions

Environmental precautions	Contain the spill to prevent any further contamination of surface, soil or water. Discharge to ground, water courses or drains can cause eutrophication.

6.3 Methods and materials for containment and cleaning up

Methods for containment	Contain the spread and if possible, recover material.
Methods for cleaning up	Dilute with water. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean area with much water. Spills in water should be contained as much as possible by isolation of the contaminated water. The contaminated water must be collected and reuse if possible as low-grade fertiliser.
Additional advice	No additional advice.

6.4 Reference to other sections

Reference to other sections	See measures for protection into the sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Avoid contact with skin and eyes.

	Wear appropriate clothing. Do not use strong oxidizing agents or alkalis.
Advice on protection against fire and explosion	No information available.
Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight (< 30°C) and from freezing. Started products must be gingerly closed and stored in a vertical position. Do not store outside uncontained.
Advice on common storage	Keep away from food, drink and animal feedingstuffs.
Suitable materials	Store in the original container. May be corrosive to aluminium, copper and iron.

7.3 Specific end use(s)

Specific end use(s)	Fertiliser. Refer to the label and / or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

For the mixture, control parameters are not known and no values for exposure limits have been determined.

For the substance :

Iron salts	VLEP 8 hours = 1 mg/m^3 – United Kingdom
	VLEP 15 min. = 2 mg/m^3 – United Kingdom

Further information:

Data for Iron sulfate II CAS 7720-78-7	
DNEL/DMEL (Workers)	
Long term systemic effects - dermal :	2,8 mg/kg bw/day
DNEL/DMEL (General population)	
Long term systemic effects - dermal :	1,4 mg/kg bw/day
Long term systemic effects - oral :	0,28 mg/kg bw/day
Shot term acute – oral :	20 mg/kg bw/day

8.2 Exposure controls

Appropriate engineering controls

Appropriate engineering controls	Eyes showers and safety showers must be placed close to the work area.

Individual protective measures, such as personal protective equipment

All the measures for collective protection should be set and use before to consider the use of personal protective equipment. In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection	No particular respiratory protection recommended.
Hand protection	After manipulation of the product, wash carefully hands. In case of prolonged or repeated use, it is recommended to wear gloves in conformity with the norm EN 374 (nitrile, latex or rubber gloves). Dispose of gloves when contaminated inside, when perforated or when contamination on the outside cannot be remove.
Eye protection	Avoid contact with eyes.
Skin and body protection	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Thermal protection	No information available.

Environmental exposure controls

Environmental exposure controls	Avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Dark brown
Odour	Slightly sweet
Odour threshold	Not determined
pH	5,0 – 5, 5
Melting point / freezing point	< 0°C
Initial boiling point and boiling range	> 100°C
Flash Point	Data not available
Evaporation rate	Data not available
Flammability (solid, gas)	Not relevant
Upper / lower flammability or explosive limits	Data not available
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	1,10 – 1,13 – 20°C -

Solubility in water	Completely soluble
Partition coefficient: n-octanol / water	Not known
Auto-ignition temperature	Not relevant
Decomposition temperature	Not relevant
Dynamic viscosity	Data not available
Explosive properties	Data not available
Oxidising properties	Does not meet the criteria for classification as oxidizing.

9.2 Other information

Other information	No other information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition	No date available.

10.2 Chemical stability

Chemical stability	The product is stable during recommended handling and storage at ambient temperatures.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.

10.4 Conditions to avoid

Conditions to avoid	Excessive heat (to water boiling point), mixing with acids and alkalis.

10.5 Incompatible materials

Incompatible materials	Can react with strong oxidising agents, acids and alkalis.

10.6 Hazardous decomposition products

Hazardous decomposition products	No known hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	ETA mixture $_{oral}$ = 5 000 mg/kg
Acute inhalation toxicity	No information available. Based on available data, the classification criteria are not met.
Acute dermal toxicity	No information available. Based on available data, the classification criteria are not met.
Skin irritation / corrosion	No information available. Based on available data, the classification criteria are not met.
Serious eye damage / irritation	No information available. Based on available data, the classification criteria are not met.
Respiratory sensitisation	No information available. Based on available data, the classification criteria are not met.
Skin sensitisation	No information available. Based on available data, the classification criteria are not met.

Carcinogenicity :

No information available. Based on available data, the classification criteria are not met.

Germ cell mutagenicity :

No information available. Based on available data, the classification criteria are not met.

Reproductive toxicity and fertility :

No information available. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure / repeated exposure) :

Single Exposure : No information available. Based on available data, the classification criteria are not met.

Repeated Exposure : No information available. Based on available data, the classification criteria are not met.

Aspiration hazard:

The mixture does not present an aspiration hazard.

Other information

No other information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available for the mixture and the components.

Toxicity to fish	No information available.
Toxicity to aquatic invertebrates	No information available.
Toxicity to aquatic plants	No information available.

Toxicity to aquatic plants	No information available.
Toxicity for bees	No information available.
Toxicity for earth-worms	No information available.
Toxicity for birds	No information available.

12.2 Persistence and degradability

Biodegradability	No information available.
Koc	No information available.

12.3 Bioaccumulative potential

Bioaccumulation	Not known.

12.4 Mobility in soil

Mobility in soil	The mixture is completely soluble in water.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment	Data not available

12.6 Other adverse effects

Additional ecological information	No information available. See the label of the product for additional instructions concerning the precautions measures for the environment that have to be taken during the manipulation of the product.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Generalities	Handle non-cleaned product like it is the product itself. Avoid subsoil penetration. Do not mix the product or container with other waste.
Product	Recycle material where possible. The unused product must be incinerated in an installation approved by the competent authorities.
Contaminated packaging	Do not reuse empty packaging. Rinse with water. Dilute washings should be recycled as low-grade fertiliser.

SECTION 14: TRANSPORT INFORMATION

Not required.

ADR/RID/ADN

14.1 UN number	/
14.2 Proper shipping name	/
14.3 Transport hazard class(es)	/
14.4 Packing group	/
14.5 Environm. Hazardous Mark	/
Hazard no.	/

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

14.1 UN number	/
14.2 Proper shipping name	/
14.3 Transport hazard class(es)	/
14.4 Packing group	/
14.5 Marin pollutant	/

IATA

14.1 UN number	/
14.2 Proper shipping name	/
14.3 Transport hazard class(es)	/
14.4 Packing group	/
14.5 Environm. Hazardous Mark	/

14.6 Special precautions for user

No special precautions for user required.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not concerned.

SECTION 15: REGULATORY INFORMATION

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

Further information

Conformity with REACH annexes	At the present time, the substances mentioned in section 3.2 of this SDS aren't quoted in : - Annex XIV of REACH Regulation EC 1907/2006 about list of substances subject to authorization

	- Annex XVII of REACH Regulation EC 1907/2006 about restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.
Conformity with CLP	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Specific provisions:

No specific provisions.

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Text of the hazard statements (H sentences) mentioned in Sections 2 and 3:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Text of hazards classes and categories mentioned in Sections 2 and 3:

Acute Tox. 4	Acute toxicity (oral route) – Category 4 -
Skin Irrit. 2	Skin corrosion/irritation – Category 2 -
Eye Irrit. 2	Serious eye damage/eye irritation – Category 2 –

Abbreviations and acronyms

ADI	Acceptable Daily Intake
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ARfD	Acute Reference Dose
A.S	Active Substance

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ATE	Acute toxicity estimate
BCF	Bioconcentration Factor
CAS-Nr.	Chemical Abstracts Service number
CLP	Classification, Labelling, Packaging regulation
Conc.	Concentration
DMEL	Derived Minimal Effect Levels
DNEL	Derived No Effect Level
EC-No.	European community number
ECx	Effective concentration to x %
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
Koc	Absorption Coefficient
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
NOEC/NOEL	No observed effect concentration/level
N.O.S.	Not otherwise specified
OECD	Organization for Economic Co-operation and Development
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative and Toxic substances
PNEC	Predicted No Effect Concentration
Pow	Partition coefficient: n-octanol / water
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substance of Very High Concern
TWA	Time weighted average
vPvB	Very Persistent and Very Bioaccumulative
UN	United Nations
WHO	World health organisation

Methods used for classification:

The classification of the product “MAXICROP Plus sequestered iron” was calculated according to the methods described in EC 1272/2008 regulation, with regards to the dangers for the environment and for health.

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Further information:

Note from SBM Life Science: This SDS was elaborated according to the SDS of the producer of the product.

Purpose of the reviewing:

Initial version of the Safety Data Sheet : creation.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Additional information:

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2015/830 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge and the legislative and regulatory texts available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The information given in this data sheet have to be consider as a description of the requirements for the product and not consider as a guarantee or a quality specification concerning its properties. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.