

**MAXICROP MOSS KILLER AND LAWN TONIC  
85849378**

1/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**SECTION I: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING****1.1 Product identifier****Product Name** MAXICROP MOSS KILLER AND LAWN TONIC**Product code** 86600257 / 86600259 / 86600258**Market Authorization  
Number** MAPP18540 / PCS 05150**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](mailto:sds@sbm-company.com)**1.4 Emergency telephone number**

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

## MAXICROP MOSS KILLER AND LAWN TONIC

2/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK & Ireland

### 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 :

Acute Toxicity (oral route), category 4 (Acute Tox. 4)

H302 Harmful if swallowed

Skin corrosion/irritation, category 2 (Skin Irrit. 2)

H315 Causes skin irritation

Serious eye damage/eye irritation, category 2 (Eye Irrit. 2)

H319 Causes serious eye irritation.

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: Iron Sulfate heptahydrate

Pictograms of hazards :



Signal word : Warning

**MAXICROP MOSS KILLER AND LAWN TONIC**

3/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**Hazard statements :**

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

**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.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P280 Wear protective gloves/protective clothing/eye protection.  
P501 Dispose of contents/container in accordance with national regulation.

**Additional mentions:** None**Additional labelling:** None**2.3 Other hazards**

No other available information.

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**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

**MAXICROP MOSS KILLER AND LAWN TONIC**

4/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

Ingredients	CAS Number EC Number Index Number	REACH Number / recording	Classification Regulation 1272/2008/EC	Environmental Hazards	Conc % (w/w)
Iron Sulfate heptahydrate*	7782-63-0 231-753-5 026-003-01-4	01-2119513203- 57-	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	/	25,0 < x < 35,0

*\*specific concentration limits : Skin Irrit. 2 H315, C >= 25%***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 data 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 1-2 glasses of water.

DO NOT induce vomiting unless directed to do so by a physician. DO NOT give something to an unconscious person.

**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.

**MAXICROP MOSS KILLER AND LAWN TONIC**

5/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

On ingestion of a moderate quantity (50 ml or ~2 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. Burns to the eye may occur if not washed promptly.

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

<b>Hazards</b>	For symptomatic patients investigations for acidosis and hyperglycemia are indicated.
<b>Treatments</b>	Desferrioxamine is considered as a chelation therapy in appropriate situations.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

<b>Suitable</b>	Carbon dioxide (CO <sub>2</sub> ), dry chemical, water spray, alcohol-resistant foam.
<b>Unsuitable</b>	None known.

**5.2 Special hazards arising from the substance or mixture**

<b>Special hazards arising from the substance or mixture</b>	The breakdown products can be dangerous for the health (oxides of iron, nitrogen and sulphur). Do not breathe fumes.
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**MAXICROP MOSS KILLER AND LAWN TONIC**

6/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**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.

**MAXICROP MOSS KILLER AND LAWN TONIC**

7/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**Methods for cleaning up** Dilute with water, neutralise with lime or limestone powder. 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.

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**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 spray onto surfaces other than grass to avoid staining.

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.

**MAXICROP MOSS KILLER AND LAWN TONIC**

8/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**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 (&lt; 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<sup>3</sup> – United KingdomVLEP 15 min. = 2 mg/m<sup>3</sup> – United Kingdom**Further information:**

Data for Iron sulfate heptahydrate CAS 7782-63-0

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

Short term acute – oral : 20 mg/kg bw/day



**MAXICROP MOSS KILLER AND LAWN TONIC**

9/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**8.2 Exposure controls****Appropriate engineering controls**

<b>Appropriate engineering controls</b>	Eyes showers and safety showers must be placed close to the work area.
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**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.

<b>Respiratory protection</b>	No particular respiratory protection recommended.
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<b>Hand protection</b>	After manipulation of the product, wash carefully hands.
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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.

<b>Eye protection</b>	Avoid contact with eyes.
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It is recommended to wear safety glasses, in conformity with the norm EN 166.

<b>Skin and body protection</b>	Wear appropriate chemical resistant clothing to prevent repeated or prolonged skin contact.
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<b>Thermal protection</b>	No information available.
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**Environmental exposure controls**

<b>Environmental exposure controls</b>	Avoid environmental contamination. Keep away from drains, surface and ground water.
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**MAXICROP MOSS KILLER AND LAWN TONIC**

10/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance</b>	Clear liquid
<b>Colour</b>	Wine red
<b>Odour</b>	Slightly sweet and metallic
<b>Odour threshold</b>	Not determined
<b>pH</b>	1,5 – 2, 5
<b>Melting point / freezing point</b>	< 0°C
<b>Initial boiling point and boiling range</b>	> 100°C
<b>Flash Point</b>	Data not available
<b>Evaporation rate</b>	Data not available
<b>Flammability (solid, gas)</b>	Not relevant
<b>Upper / lower flammability or explosive limits</b>	Data not available
<b>Vapour pressure</b>	Data not available
<b>Vapour density</b>	Data not available
<b>Relative density</b>	1,19 – 1,21 – 20°C -
<b>Solubility in water</b>	Completely soluble
<b>Partition coefficient: n-octanol / water</b>	Not known

**MAXICROP MOSS KILLER AND LAWN TONIC**

11/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

<b>Auto-ignition temperature</b>	Not relevant
<b>Decomposition temperature</b>	Not relevant
<b>Dynamic viscosity</b>	Data not available
<b>Explosive properties</b>	Data not available
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidizing.

**9.2 Other information**

<b>Other information</b>	No other information
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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

<b>Thermal decomposition</b>	No data available.
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**10.2 Chemical stability**

<b>Chemical stability</b>	The product is stable during recommended handling and storage at ambient temperatures.
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**10.3 Possibility of hazardous reactions**

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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**10.4 Conditions to avoid**

<b>Conditions to avoid</b>	Excessive heat (to water boiling point), mixing with alkalis.
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**MAXICROP MOSS KILLER AND LAWN TONIC**

12/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**10.5 Incompatible materials**

**Incompatible materials** Can react with strong oxidising agents and alkaline materials.

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** No known hazardous decomposition products known.

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**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

**Acute oral toxicity** ETA mixture<sub>oral</sub> = 1 428 mg/kg

Harmful if swallowed.

**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** Causes skin irritation.

**Serious eye damage / irritation** Causes serious eye irritation.

**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.

**MAXICROP MOSS KILLER AND LAWN TONIC**

13/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**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.

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**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.

**MAXICROP MOSS KILLER AND LAWN TONIC**

14/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**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** No data 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.

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**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Generalities** Handle non-cleaned product like it is the product itself.  
Avoid subsoil penetration.

**MAXICROP MOSS KILLER AND LAWN TONIC**

15/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

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.

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**SECTION 14: TRANSPORT INFORMATION**

No classification for transport 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	/

**MAXICROP MOSS KILLER AND LAWN TONIC**

16/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**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).



**MAXICROP MOSS KILLER AND LAWN TONIC**

17/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

**Specific provisions:**

No specific provisions.

**15.2 Chemical Safety Assessment**

A chemical safety assessment is not required.

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**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
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

**MAXICROP MOSS KILLER AND LAWN TONIC**

18/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

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 "Solabiol Moss killer and Lawn tonic" was calculated according to the methods described in EC 1272/2008 regulation, with regards to the dangers for the environment and for health.

**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.

**MAXICROP MOSS KILLER AND LAWN TONIC**

19/19

Creation Date: 12/06/2020

Revision Date: 13/01/2021

Version: 2 / UK &amp; Ireland

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.