

According to EC Regulations No. 453/2010 (REACH), 1272/2008 (CLP) & 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name MOSS KILLER & LAWN TONIC

Product code XMKLT2XL, XMKLT4TL, XMKLT6IL, XMKLTYDL (MAPP 04661PCS 92340)

REACH registration No. Not applicable

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

Identified use(s)

Use as a home and garden lawn treatment

Uses advised against Not suitable for human consumption

1.3. Details of the supplier of the safety data sheet

Supplier name: Maxicrop (UK) Ltd Supplier address: Maxicrop (UK) Ltd

P.O. Box 6027

Corby NN17 1ZH

Supplier telephone: +44 (0) 8700 115117 Email: +48 (0) 8700 115117 sales@maxicrop.co.uk

1.4. Emergency telephone number

Emergency phone No. +44 07779 781813 (GMT English spoken, Mon-Fri – 08:00 – 17:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Regulation (EC) No.1272/2008 (CLP) Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Serious eye irritation (Category 2)

2.2.2. Directives 67/548/EEC, 1999/45/EC Harmful if swallowed (Xn)

Irritating to skin (Xi)
Irritating to eyes (Xi)

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]



CLP Hazard Pictograms:

Signal Word(s): Warning

Hazard Statements:

Mosskiller SDS rev7 Page 1 of 10



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

Precautionary Statements:

P270 Do not eat, drink or smoke when using this product

P280 Wear eye protection

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you

feel unwell

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P332 + P313 If skin irritation occurs: Get medical advice/attention

P501 Dispose of contents in accordance with local regulations, dispose of

container to appropriate domestic recycling stream

According to European Directive 67/548/EEC as amended.



Hazard symbol(s):

Risk phrases:

Xn; R22 Harmful if swallowed Xi; R36/38 Irritating to skin and eyes

Safety phrases:

S13 Keep away from food, drink and animal feedingstuffs

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water

and seek medical attention

S28 After contact with skin, wash immediately with plenty of water

S39 Wear eye protection

S46 If swallowed, seek medical advice immediately and show this

document

2.3. Other hazards This product has not been tested for PBT or vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC Classification No 1272/2008 / EEC Classification No 67/548/EEC

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	H statements / Risk Phrases
Iron sulphate heptahydrate	25 – 35	7782-63-0	231-753-5	01-2119513203- 57-###	H302, H315, H319
					R22, R36/38

Mosskiller SDS rev7 Page 2 of 10



SECTION 4: First aid measures

4.1. Description of first aid measures

4.1.1. First aid instructions.

If inhaled: Move person into fresh air, rest and seek medical advice

If on skin (or hair): Wash affected skin with plenty of water. Wash clothes before reuse

If in eyes: Wash affected eyes for at least 15 minutes under running water with

eyelids held open. Remove contact lenses if possible. Seek medical

advice

If swallowed: Never give anything by mouth to an unconscious person. Rinse

mouth and throat. Do not induce vomiting. Drink 1-2 glasses of water.

Consult a physician

Other first aid advice: If vomiting occurs spontaneously, keep airways clear. Give more

water when vomiting stops

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

If inhaled: Inhalation of mist or vapours may cause irritation of mucous

membranes and upper respiratory tract. Symptoms may include

irritation, coughing and tightness of breath

If on skin (or hair): 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.

If in eyes: Exposure to eyes will result in immediate pain and tearing. Burns to

the eye may occur if not washed promptly

If swallowed: 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

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

Medical treatment: For symptomatic patients investigations for acidosis and

hyperglycemia are indicated

Desferrioxamine is considered as a chelation therapy in appropriate

situations

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: All extinguishing agents permitted

Unsuitable extinguishing media: None known

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Oxides of iron, carbon, nitrogen and sulphur

Mosskiller SDS rev7 Page 3 of 10



Other special hazards during fire: None known

5.3. Advice for firefighters

Protective actions during firefighting: Wear self-containing breathing apparatus

Special protective equipment for firefighters: No special instructions

Other advice: Not applicable

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel PPE See section 8.2

Emergency responders PPE See section 8.2

Controlling risks from accidental release: Avoid contact with strong oxidising agents

Emergency procedures: Evacuate personnel to safe areas.

6.2. Environmental precautions

Keep accidental releases away from: Drains, water courses, soil and open ground. Discharge to

ground, water courses or drains can cause eutrophication

6.3. Methods and material for containment and cleaning up

Containing a spill: Mop up and contain with absorbent materials

Cleaning up a spill Mop spills, recycle where possible

Other information on spill handling: Dilute with water, neutralise with lime or limestone powder.

Capture with absorbent material. Recycle where possible

6.4. Reference to other sections

References to other sections: See section 8.2 for personal protective equipment. See

section 13.1 for disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling recommendations: Wash hands and exposed skin before meals and after use.

Where gloves when handling the product over long periods of time. Do not spray onto surfaces other than grass to avoid

staining

Handling incompatibles: Do not use strong oxidising agents or alkalis

Reducing environmental risk: Do not discharge into drains or water courses

Occupational hygiene advice Wash hands after using this product and before eating,

drinking or smoking. Remove contaminated clothing and

protective equipment before entering eating areas

Mosskiller SDS rev7 Page 4 of 10



7.2. Conditions for safe storage, including any incompatibilities

Safe storage: managing risks during storage:

Explosive atmospheres formed during storage: Not applicable

Corrosive conditions during storage: Not applicable

Flammability hazards during storage: Not applicable

Incompatible substances or mixtures: Incompatible with oxidising agents and alkalis

Evaporative conditions: Not applicable

Potential ignition sources, including electrical equipment: Not applicable

Safe storage: controlling effects of ambient conditions:

Weather conditions: Do not store outside uncontained

Ambient pressure: Not applicable

Temperature: Do not allow product to freeze or exceed 30°C

Sunlight: Keep out of direct sunlight

Humidity: Not applicable

Vibration: Not applicable

Safe storage: maintaining the integrity of the product:

Stabilisers: Stabilisers are not used in this product

Antioxidants: Antioxidants are not used in this product

Safe storage: other advice:

Ventilation requirements for storage: No specific ventilation requirements

Specific designs for storage rooms or vessels: No specific design criteria on storage areas apart

from normal regulatory requirements for substances

of this type

Quantity limits under storage conditions: Not applicable

Suitable packaging for the substance: Keep in original container, may be corrosive to aluminium,

copper and iron

7.3. Specific end use(s)

Uses: Use as a home and garden lawn treatment

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure limits:

Mosskiller SDS rev7 Page 5 of 10



Current workplace exposure limits assigned to individual components according to HSE document EH40/2005

Substance	CAS	Workpla	Workplace Exposure Limit			Comments
	number	exposur (8-hr TV	Long-term exposure limit (8-hr TWA reference period)		rm exposure ute e period)	The Carc, Sen and Sk notations are not exhaustive. Notations have been applied to the substances
		ppm	mg.m ⁻³	ppm	mg.m ⁻³	identified in IOELV Directives
Iron Salts	-	-	1.0	-	2.0	-

8.1.2 Biological Limit Values: Not applicable

8.1.3 Current recommended monitoring procedures: Not applicable

8.1.4 Air contaminants formed when using the product as intended:

Not applicable

8.1.5. PNECs and DNELs Not applicable

8.2. Exposure controls

8.2.1. Appropriate engineering controls: Handle in accordance with good industrial hygiene

8.2.2. Personal Protection Equipment

Eye protection: Use safety glasses tested and approved under appropriate

government standards such as NIOSH (US) or EN 166(EU)

Face protection: Not required

Hand protection: It is recommended that where this product is to be handled

for an extended period; nitrile, latex or rubber gloves, which satisfy the specifications of EU Directive 89/686/EEC and the

standard EN420 derived from it are worn

Other skin protection Do not wear open footwear

Respiratory protection Not required

Thermal hazards Not required

8.2.3. Environmental exposure controls Do not release substance to drains or surface water

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Clear liquid

Physical state: Liquid

Colour: Wine red

Odour: Slightly sweet and metallic

Mosskiller SDS rev7 Page 6 of 10



Odour threshold: Data not available

pH: 1.5 – 2.5

Melting point: Data not available

Freezing point: <0°C

Initial boiling point: >100°C

Boiling range: Data not available

Flash point: Data not available

Flash point method: Data not available

Evaporation rate: Data not available

Flammability (if solid or gas): Data not available

Upper and lower flammability or explosive limits: Data not available

Vapour pressure: Data not available

Vapour density: Data not available

Relative density: $1.19 - 1.21 \text{ g/cm}^3 \text{ (at } 20^{\circ}\text{C)}$

Solubility(ies) Completely soluble in water

Partition coefficient: n-octanol/water Data not available

Auto-ignition temperature Data not available

Decomposition temperature Data not available

Viscosity Data not available

Explosive properties Data not available

Oxidising properties Data not available

9.2. Other information Data not available

SECTION 10: Stability and reactivity

10.1. ReactivityCan react with strong oxidising agents and alkaline materials

10.2. Chemical stability Product is stable under anticipated storage and handling

conditions

10.3. Possibility of hazardous reactions Substance not known to react and/or polymerise

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

10.5. Incompatible materials Oxidising and alkaline materials

10.6. Hazardous decomposition products No known hazardous decomposition products known

Mosskiller SDS rev7 Page 7 of 10



SECTION 11: Toxicological information

11.1. Information on toxicological effects

Data for iron(II) sulphate heptahydrate;

Acute toxicity Oral - LD50 300 – 2,000 mg/kg body weight

Skin corrosion/irritation Dermal - LD50 >2,000 mg/kg body weight

Serious eye damage/irritation Based on formulation components, the mixture is classified

as an eye irritant

Germ cell mutagenicity Data not available

Carcinogenicity Data not available

Reproductive toxicity Data not available

STOT-repeated exposure; Data not available

11.2. Other information No other information

SECTION 12: Ecological information

12.1. Toxicity

No specific data available. The mixture is not classified as an environmental hazard.

12.2. Persistence and degradabilityData not available

12.3. Bioaccumulative potential Data not available

12.4. Mobility in soil Data not available

12.5. Results of PBT and vPvB assessment Data not available

12.6. Other adverse effects

Environmental fate Data not available

Photochemical ozone creation potential Data not available

Ozone depletion potential Data not available

Endocrine disrupting potential Data not available

Global warming potential Data not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This material, if discarded as produced, is not classified as a hazardous waste

Mosskiller SDS rev7 Page 8 of 10



Waste treatment containers to be used for product include IBCs or drums Recycle material where possible. If heavily soiled or disposal judged as necessary dispose to landfill in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be recycled where possible

SECTION 14: Transport information

14.1. UN number Not applicable

14.2. UN proper shipping name ADR/RID Not dangerous goods

IMDG Not dangerous goods IATA Not dangerous goods

14.3. Transport hazard class(es) Not applicable

14.4. Packing group Not applicable

14.5. Environmental hazards Not applicable

14.6. Special precautions for user Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

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

Ozone depleting substance (EC No 2037/2000): Not applicable

Persistent organic pollutants (EC No 850/2004)

Not applicable

Export and import of dangerous chemicals (EC No 689/2008)

Not applicable

COMAH/ Seveso II categories or named substance

Not applicable

REACH Authorisations and/or Restrictions Not applicable

Any other relevant Safety, health and environmental regulations:

Not applicable

15.2. Chemical safety assessment A chemical safety assessment has not been

carried out for this product

SECTION 16: Other information

a) Changes made to SDS:

Every section has undergone amendment since revision 5

b) Key (or legend)

IOELV Indicative Occupational Exposure Limit Values LD50 Lethal Dosage affecting 50% of sample population

TWA Time Weighted Average

Mosskiller SDS rev7 Page 9 of 10



c) Literature references

Data gathered for raw materials from European Chemicals Agency:

http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances

Data gathered for ferrous sulphate toxicity from The Royal Children's Hospital Melbourne

http://www.rch.org.au/clinicalguide/guideline_index/Iron_Poisoning/

Last accessed (18/04/2017)

Some physical properties reported from direct laboratory testing performed at Grotech Production Ltd Some data has been derived from constituent safety datasheets

d) Details of relevant hazard information

H302 Harmful if swallowed H315 Causes skin irritation

H319 Causes serious eye irritation

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P280 Wear eye protection

P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you

feel unwell

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

P321 Specific treatment (see on this label)

P330 Rinse mouth

P332 + P313 If skin irritation occurs: Get medical advice/attention
P362 Take off contaminated clothing and wash before reuse

P501 Dispose of contents in accordance with local regulations, dispose of

container to appropriate domestic recycling stream

R22 Harmful if swallowed
R36/38 Irritating to skin and eyes

S13 Keep away from food, drink and animal feedingstuffs

S24/25 Avoid contact with skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water

and seek medical attention

S28 After contact with skin, wash immediately with plenty of water

S39 Wear eye protection

S46 If swallowed, seek medical advice immediately and show this

document

e) Appropriate training for workers

Training for spillage handling and chemical handling is recommended

f) Classification method:

CLP classification, CHIP classification

Mosskiller SDS rev7 Page 10 of 10