

SAFETY DATA SHEET

MOSS INHIBITOR

Date: JUN 2015

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Revision: 2

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Moss Inhibitor

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

Moss preventative treatment

1.3 Details of the supplier of the safety data sheet

SUPPLIER:

ARTEMIS PRODUCTS

7 CENTURION BUSINESS PARK

GLASGOW G41 1HH

Tel: +44(0)141 429 2525 Fax: +44(0)141 429 2060

Email:sales@artemisproducts.co.uk

1.4 Emergency telephone number

Tel: +44 (0)141 429 2525

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP Regs.: Skin corr. 1B H314; Aquatic ac. H400; Aquatic chr. 2 H411

2.2 Label elements

Label elements under CLP:

Contains Alkyl dimethyl benzyl ammonium chloride.

Hazard pictograms: GHS05; GHS09



Signal Word: Danger

Hazard Statements: H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting effects.

Precautionary statements : PREVENTION: Wear protective gloves, clothing and eye protection. Wash hands thoroughly after handling. Avoid release into the environment.

RESPONSE: IF ON SKIN (or hair): Wash immediately with soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTRE or doctor/physician. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

2.3 Other hazards

PBT: this material does not contain any substance identified as a PBT or vPvB substance

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3. Composition/information on ingredients

3.1 Substances N/A

3.2 Mixtures

Hazardous ingredients:

CAS	EINECS	Classification CLP	Conc %w/w
Alkyldimethylbenzylammonium chloride			
68424-85-1	270-325-2	Acute tox.4 H302; Skin corr.1B H314; Aquatic acute H400; Aquatic chr. 1 H411	5-10

See section 16 for full text of H statements

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Seek medical advice.

Skin contact: Remove at once all contaminated clothing. Wash area with soap and water. Seek medical advice if irritation persists.

Ingestion: DO NOT induce vomiting. Give plenty of water to drink and seek immediate medical attention.

Inhalation: Move to fresh air. Seek medical attention if recovery is not rapid or complete

4.2 Most important symptoms and effects both acute and delayed

There may be irritation and redness at site of contact

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Choice of extinguisher should be based on other surrounding materials. Containers may be kept cool with water spray.

Unsuitable agents:

5.2 Special hazards arising from the substance or mixture

Carbon dioxide and carbon monoxide may be produced

5.3 Advice for firefighters

Wear protective clothing to prevent contact in event of bursting containers

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Refer to sect. 8 of this SDS for protective clothing

6.2 Environmental precautions

Uncontrolled discharges into water courses must be notified to the appropriate regulatory authorities

6.3 Methods and material for containment and cleaning up

Small spillages may be rinsed away with plenty of water. Larger spillages should be contained and soaked up in inert medium such as sand or suitable sorbent material. Transfer to a labelled, sealed plastic container for disposal in accordance with local regulations.

6.4 Reference to other sections

See section 8 for personal protective measures.

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7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed and out of reach of children. Do not mix with other chemicals.

7.3 Specific end use

See sect. 1.2

8. Exposure controls/personal protection

8.1 Control parameters

Substances assigned Workplace Exposure Limits

Name	type	Long term	Short term
None			

8.2 Exposure controls

Engineering measures: Ensure good ventilation.

Hands: Wear rubber or PVC gloves if skin contact is unavoidable.

Eyes: Safety goggles.

Skin: Appropriate workwear to prevent skin contact.

Respiratory: Avoid working in spray mist. Exposure limits apply to exposure by inhalation and are unlikely to be reached in normal use.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Clear liquid

Odour: Faint

Density at 20°C: 1.0kg/ltr

Boiling point/range: >100°C

Oxidising: No

pH : 6.8

Solubility: Completely soluble in water.

Flash point: N/A

Vapour pressure: N/A

9.2 Other information

No further relevant information.

10. Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions but see section 10.5

10.2 Chemical stability

Stable under normal conditions of transport and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal conditions. See sect. 10.5

10.4 Conditions to avoid

No special measures

10.5 Incompatible materials

Avoid contact with acids, strong oxidising agents.

10.6 Hazardous decomposition products

Oxides of carbon and other fumes may be produced on decomposition at very high temperatures.

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11. Toxicological information

11.1 Information on toxicological effects.

Toxic dose LD50 (oral, rat) Alkyldimethylbenzylammonium chloride 200 – 2000mg/kg (oral, rat).

Effects of overexposure:-

Eyes: Severe pain, redness and watering, possible tissue damage.

Skin: Irritation, redness, burns on prolonged contact.

Ingestion: Severe irritation and possible burns to throat and mouth, abdominal pain, vomiting.

Inhalation (mist): Coughing, shortness of breath, irritation to membranes of nose and throat.

12. Ecological information

12.1 Toxicity

Alkyldimethylbenzylammonium chloride LC50 0.01 – 0.1mg/l (fish, 96 hrs))

12.2 Persistence and degradability

Components are biodegradable.

12.3 Bioaccumulative potential

The product will not bioaccumulate.

12.4 Mobility in soil

The product is soluble in water.

12.5 Results of PBT and vPvB assessment

The product does not contain any ingredient identified as a PBT or vPvB substance.

12.6 Other adverse effects

Uncontrolled discharge of concentrate may have adverse effects on aquatic organisms.

13. Disposal considerations

13.1 Waste treatment methods

Comply with local regulations. Do not allow concentrate to enter water systems. Residues should be disposed of as controlled waste to a licensed site.

Packaging: Used packaging should be cleaned thoroughly with water and may be suitable for recycling.

14. Transport information

14.1 UN Number

Not classified as hazardous for transport.

14.2 UN Proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

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15. Regulatory information

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

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16. Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010

The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture. The full text of the H statements referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

Abbreviations and Acronyms

ADR	European Agreement concerning the International Carriage of Goods by Road
CAS	Chemical Abstracts Service
CHIP	Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45/EC and 67/548/EC
CLP	Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008
CMR	Carcinogenic-mutagenic-toxic for reproduction
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
RID	Convention concerning International Carriage by Rail
WEL	Workplace Exposure Limit
VOC	Volatile Organic Compound