

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: Mosgo Green Remover

Product Number(s): P2303 (1L), P2302 (2.5L), P1007 (5L), G1008 (20L)

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

Biocide Product

1.3 Details of the supplier of the safety data sheet

Hygeia Chemicals Limited, Carrowmoneash, Oranmore, Co. Galway

Tel: 091-794722

Fax: 091-794738

email: services@hygeia.ie**1.4 Emergency telephone number**

National Poisons Information Centre (Tel: 01-8379964) (Fax: 01-8368476)

Section 2: Hazards Identification**2.1 Classification according to Regulation (EC) 1272/2008 [EU-GHS/CLP]**

Skin Corr. 2: H315; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 2: H411

2.2 Label Elements**Labelling according to Regulation (EC) No 1272/2008 (CLP):****Hazard pictograms:**

GHS05: Corrosive

GHS09: Environment

Signal words:

Danger

Hazard statements:

H315: Causes skin irritation

H318: Causes serious eye damage

H400: Very toxic to aquatic life

H411: Toxic to aquatic life with long lasting effects

Precautionary statements:

P264: Wash exposed skin thoroughly after handling

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P501: Dispose of contents/container to an approved waste disposal plant

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P362: Take off contaminated clothing and wash before re-use

P310: Immediately call a POISON CENTRE or doctor/physician

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P391: Collect spillage

2.3 Other hazards
Not Available

Section 3: Composition/information on ingredients

3.1 Substances
Not Available

3.2 Mixtures

Name	No.	Classification	% Wt.
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS: 68424-85-1 EC-No: 270-325-2	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400	5 - 10%

Section 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 mins. Consult an Eye Specialist. (Show this Safety Data Sheet)

Skin Contact: Remove all contaminated clothing immediately. After contact with skin, wash immediately with soap and water. Seek medical attention immediately. (Show this Safety Data Sheet)

Ingestion: Rinse mouth immediately with water and drink plenty of water. Obtain medical attention immediately. (Show this Safety Data Sheet). Do not induce vomiting without medical advice

Inhalation: Remove to fresh air immediately. If breathing is irregular or stopped, administer artificial respiration. Give oxygen, first-aider needs to protect him/herself. Seek medical attention immediately. (Show this Safety Data Sheet)

4.2 Most important symptoms and effects, both acute and delayed
Not available

4.3 Indication of any immediate medical attention and special treatment needed
Not available

Section 5: Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Dry Powder, Water Spray, Foam

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic incineration products may be released such as:

Nitrogen Oxides (NO_x)
Hydrogen Chloride (HCl)
Carbon Monoxide (CO)

5.3 Advice for firefighters

Wear self-contained breathing apparatus, suitable gloves and safety boots

Section 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Use respirator when performing operations involving potential exposure to vapour of the product. Use protective clothing
- 6.2 Environmental precautions**
As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water. Inform Authorities in case of contamination of water or sewage system
- 6.3 Methods and material for containment and cleaning up**
Contain and collect spillage with non-combustible absorbent material. Place in suitable labelled containers and dispose of as hazardous waste
- 6.4 Reference to other sections**
Not Available

Section 7: Handling and Storage

- 7.1 Precautions for safe handling**
When using do not eat, drink or smoke. Avoid contact with eyes and skin. Provide adequate ventilation in work area. Protect the product against moisture. Take precautionary measures against static discharges
- 7.2 Conditions for safe storage, including any incompatibilities**
Do not store in heat or direct sunlight. Keep container tightly closed. Store in a dry, cool place. Keep product away from food, drink and animal feedingstuffs
- 7.3 Specific end use(s)**
Not Available

Section 8: Exposure Controls/Personal Protection

- 8.1 Control Parameters**
No data available
- 8.2 Exposure Controls**
Personal Protection Equipment
- Respiratory Protection:** In the case of vapour formation use a respirator with an approved filter. Respirator with a vapour filter (EN 141)
Respirator with ABEK filter
- Hand Protection:** Suitable material: Nitrile rubber
Break through time: > 480 min
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact)
- Eye Protection:** Tightly fitting safety goggles. Face-shield
- Skin & Body Protection:** Choose body protection according to the amount and concentration of the dangerous substance at the workplace.
Rubber or plastic apron. Rubber or plastic boots

Hygiene Measures: Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use

Environmental Exposure Controls

General Advice: Do not flush into surface water or sanitary sewer system

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Clear Liquid
Odour: Odourless
pH: 7.5 (typical)
Specific Gravity: 0.994g/l @ 20°C (typical)
Boiling Point: 100°C approx.
Melting Point/Range: No data available
Decomposition Temp.: No data available
Flash Point: Closed cup >100°C (50% w/w)
Auto Ignition Temp.: No data available
Explosive Properties: No data available
Oxidising Properties: No data available
Vapour Pressure: No data available
Water Solubility: Completely Miscible
Solvent Solubility: No data available
Viscosity: ca. 300 mPa.s (20°C) (50% w/w)

9.2 Other information

Not Available

Section 10: Stability and Reactivity

10.1 Reactivity

Stable under recommended storage conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Stable under normal conditions

10.4 Conditions to avoid

Avoid direct heat protect from frost

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored normally

Section 11: Toxicological Information

11.1 Information on toxicological effects

The following ecotoxicological data refers to:

N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride (CAS-No: 68424-85-1)

Acute Oral Toxicity (LD₅₀): ca. 344 mg/kg
Species: Rat

Acute Dermal Toxicity(LD₅₀):	ca. 3,340 mg/kg Species: Rabbit Exposure time: 24h
Skin Irritation:	Corrosive Species: Rabbit Exposure time: 24h Method: DOT
Eye Irritation:	Corrosive Species: Rabbit Method: DOT
Sensitization:	Not sensitizing Species: Guinea Pig Buchler Test Method: OECD Test Guideline 406
Genotoxicity in vitro:	Negative Ames test, Salmonella typhimurium Method: OECD Test Guideline 471 Negative chromosome aberration test in vitro, human lymphocytes Method: OECD Test Guideline 473

Section 12: Ecological Information

12.1 Toxicity

Toxicity to fish (LC ₅₀):	0,28 mg/l Species: Pimephales promelas (fathead minnow) Acute toxicity Exposure time: 96 h Method: US-EPA
Toxicity to fish (NOEC):	0,032 mg/l Species: Pimephales promelas (fathead minnow) Early-life stage Exposure time: 34 d Method: EPA-FIFRA
Toxicity to daphnia and other aquatic invertebrates (EC ₅₀):	0,016 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 48 h Method: OECD Test Guideline 202
(NOEC):	0,0042 mg/l Species: Daphnia magna (Water flea) Reproduction Test Exposure time: 21 d Method: EPA-FIFRA

Toxicity to algae (ErC₅₀): 0,049 mg/l
 Species: Pseudokirchneriella subcapitata (green algae)
 Cell multiplication inhibition test
 Exposure time: 72 h
 Method: OECD Test Guideline 201

Toxicity to bacteria (EC₅₀): 7,75 mg/l
 Species: activated sludge
 Respiration inhibition
 Exposure time: 3 h
 Method: OECD Test Guideline 209

12.2 Persistence and Degradability

Biodegradability: OECD Confirmatory Test: > 90%
 Method: OECD 303 A

Modified SCAS Test: > 99%
 Testing period: 7 d
 Method: OECD 302 A

CO₂ Evolution: 99,5%
 Readily biodegradable
 Testing Period: 28 d
 Method: OECD 301 B

12.3 Bioaccumulative Potential

Low potential to bioaccumulate (Log Kow <3)
 Log Kow 0.5—1.58

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB Assessment

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

This mixtures contains no substance considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other Adverse Effects:

Additional advice: No data available

Section 13: Disposal Considerations

13.1 Waste treatment methods

Product Disposal: Dispose of according to local and national regulations
Container Disposal: Triple rinse containers with water and dispose of according to local and national regulations

Section 14: Transport Information

- 14.1 UN number**
3082
- 14.2 UN Proper shipping Name**
Environmentally Hazardous Substance, Liquid, N.O.S. (Benzalkonium Chloride)
- 14.3 Transport Hazard Class(es)**
Class 9: Miscellaneous dangerous substance and articles
- 14.4 Packing Group**
III
- 14.5 Environmental Hazards**
Environmentally Hazardous Substance/Marine Pollutant
- 14.6 Special Precautions for User**
EMS F-A, S-F
Emergency Action Code •3Z
Hazard No. (ADR) 90
Tunnel Restriction Code (E)
- 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**
This data sheet complies with the requirements of Regulation (EC) No. 1907/2006
- 15.2 Chemical safety assessment**
A chemical safety assessment was not carried out

Section 16: Other Information**Text of Phrases mentioned in Sections 2 and 3:****Full text of H-Statements:**

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal, release and is not to be considered a warranty of 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 materials or in any process unless specified in the text