

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Name of Preparation:

GEM Stop Weeds - Sodium Chlorate (M04159) (Index No 54)

1.2 Intended Use:

A home garden herbicide

1.3 Supplier Details:

William Sinclair Horticulture
Firth Road
Lincoln
LN6 7AH

Tel: 01522 537561

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2. INFORMATION ON INGREDIENTS

THIS PREPARATION IS CLASSIFIED AS DANGEROUS UNDER DIRECTIVE 2001/59/EC

2.1 Composition:

Hazardous Components –

52% SODIUM CHLORATE	CAS 7775-09-9	O; XN R9; R22	S2;
13; 17; 46			

3. HAZARDS IDENTIFICATION

3.1 Classification of Preparation:



OXIDISING



HARMFUL

3.2 Primary Hazards:

CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
HARMFUL IF SWALLOWED

4. FIRST AID MEASURES

4.1 Any special measures:

None.

4.2 Inhalation:

Remove from source of exposure to fresh air; seek medical attention if irritation develops/persists or breathing becomes difficult.

4.3 Skin & eye exposure:

Rinse immediately with plenty of water. Seek medical advice if irritation develops/persists.

4.4 Ingestion:

Seek medical advice and show label of container

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media:

Not flammable.

5.2 Unsuitable extinguishing media:

As appropriate for surrounding fire. Sodium Chlorate is an Oxidiser.

5.3 Special hazards, combustion or by products:

Toxic Fumes may be released at high temperatures.

5.4 Protective clothing for fire fighting:

Suitable protective clothing and breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

None specified

6.2 Environmental precautions:

Do not wash excessive spillages into water courses.

Do not burn.

6.3 Clean & disposal methods:

Use soil, sand or other absorbent material,

7. HANDLING AND STORAGE

7.1 Practical precautions & engineering controls for safe handling:

Open container with care to avoid generating excessive dust.

7.2 Conditions and quantity limits for safe storage:

Store in a cool, dry atmosphere in original, labelled containers.

Refer to manufacturer for maximum safe stacking height.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values:

Not determined for product.

8.2 Occupational exposure controls:

None specified.

8.3 Personal Protective Equipment:

Use gloves for handling of concentrate product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.01 Appearance: white crystals

9.02 Odour: odourless

9.03 pH (of solutions): not specified

9.04 Melting point/range: >200c

9.05 Flash Point/Flammability: not classified as flammable

9.06 Explosive properties: not classified as explosive

9.07 Oxidising properties: Classified as oxidising

9.08 Vapour pressure: not specified

9.09 Relative Density: 1.33g/m³ (bulk density)

9.10 Solubility: soluble in water

9.11 Partition coefficient: not specified

9.12 Viscosity: not specified

9.13 Vapour density: not specified

9.14 Evaporation rate: not specified

10. STABILITY AND REACTIVITY

10.1 Materials to avoid:

Metals, Sulphur compounds, acids, ammonium salts and storage with organic material.

10.2 Conditions to avoid:

None

10.3 Hazardous decomposition products:

Toxic Gases (chlorine based) may be released at high temperatures

11. TOXICOLOGICAL INFORMATION

The Preparation has not been fully assessed for this end-point, but LD50 (oral, rat) for sodium chlorate is published as 1200mg/kg. Harmful if swallowed. Mild skin irritation, Irritating to eyes, irritating to respiratory system. Human experience has shown that a lethal dose for sodium chlorate may be 5 - 10g for adults and 2g for small children.

12. ECOLOGICAL INFORMATION

Toxic to flora. Toxic to Bees.

12.1 Ecotoxicity:

Aquatic toxicity (as Sodium Chlorate) LC₅₀ / 48Hr Oncorhynchus mycis (Rainbow Trout) 2.750 mg/l LC₅₀ / 96Hr 1.750 mg/l. EC₅₀ / 24Hr Daphnia magna (Water Flea) 1.093 mg/l. LOEC/96Hr Scenedesmus quadricauda (Green Algae) 3mg/l, EC₅₀ /120Hr 122-144 mg/l

12.2 Mobility:

No specific data available

12.3 Persistence & degradability:

Product is not readily biodegradable in water or under aerobic circumstances. In anaerobic environment microbes may reduce chlorate to chloride. In solution chlorate ions may reduce to chloride.

12.4 Bioaccumulative potential:

Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal of used preparation:

Dispose in accordance with directions for use.

13.2 Disposal of packaging:

Via household waste, burn or bury.

14. TRANSPORT INFORMATION

The preparation is classified as a Dangerous Goods for Transport.

14.1 Specific Transport requirements

ADR/RID:	Class	5.1
	Packing Group	II
	Hazard id number	50
	UN Number	1495
	Shipping name	Oxidising Solid NOS (contains Sodium Chlorate)

IMDG/GGV:	Class	5.1
	Packing Group	II
	UN Number	1495
	Ems	5.1-06

ICAO/IATA:	Class	5.1
	Packing Group	II
	UN Number	1495

15. REGULATORY INFORMATION

This preparation is classified and labelled in accordance with both regulation 2001/59/EC, The Fertiliser Regulations 1991 and the Control of Pesticides Regulations 1986.

S2: Keep out of reach of Children

S37: Wear suitable gloves

S46: If swallowed, seek medical advice immediately and show this container of label

16. OTHER INFORMATION

R8: CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE

R22: HARMFUL IF SWALLOWED.

TO AVOID RISKS TO MAN AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

Compiled using data submitted for raw materials and practical experience.

This product is intended for amateur users only.

This Safety Data Sheet is prepared in compliance with Directive 2001/59/EC.

THE INFORMATION GIVEN HEREIN IS, TO THE BEST OF OUR KNOWLEDGE, CORRECT AND IS PRESENTED IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED IS GIVEN.

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