

Material Safety Data Sheet

SLINGSHOT

1. Identification of the substance/preparation and company/undertaking:

MAPP Number: **MAPP 14505**

Trade Name: Slingshot

Recommended Uses: A systemic herbicide for the control of grass and broad-leaved weeds in the agricultural, horticultural, industrial, forestry and non-crop situations.

Manufacturer/Supplier: ChemSource Limited
5 Jupiter House,
Calleva Park,
Aldermaston
Reading, Berks.
RG7 4NN
United Kingdom

Telephone number: 0845 459 4039

e-mail: james@chemsource.co.uk

Emergency Telephone Nos: 0845 459 4039 [ChemSource 24 hrs.]

0870-600-6266 [UK National Poisons Control
Information Service (NPIS) Centre]

01-8379964/66 [Poisons Information Centre,
Beaumont Hospital, Beaumont, Dublin 9, Ireland]

2. Composition/Information on Ingredients:

HAZARDOUS COMPONENTS:

Component	CAS Reg. No.	EINECS ELINCS No.	Conc. % w/w	Risk Phrases*	Hazard Symbol
Glyphosate isopropylamine	38641-94-0	254-056-8	41.5	-	-
Tallow alkyl-amine ethoxylate	61791-26-2	500-153-8	8.1	R22, 41 R51, 53	Xn, N
Water	-	-	-	-	-

* See Section 16 for details of risk phrases.

3. Hazards Identification

Human: Risk of serious damage to eyes.

Environmental hazard in case of accident (spillage or leakage): Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

General: Have the product container, label or Materials Safety Data Sheet with you when calling the Poisons Information Service, ChemSource, a physician or when going for medical treatment. Move out of contaminated area and place victim in the recovery position if necessary. Remove contaminated clothing and dispose of safely.

Skin Contact: Wash affected area immediately with plenty and water. If skin irritation persists, call a physician. Remove contaminated clothing and wash thoroughly before re-use.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, including under eyelids. Remove contact lenses if worn. Call a physician or the poison control centre if any irritation occurs.

Inhalation: Remove patient to fresh air and seek medical advice. Keep the patient warm and at rest. If breathing is irregular or had stopped, administer artificial respiration.

Ingestion: If swallowed, contact poison control centre or seek medical advice immediately and show product container or label. Do not induce vomiting. If conscious, drink plenty of water.

Further Information: Note to medical staff: For specialist advice, doctors should consult the UK National Poisons Control Information Service or Poison Information Centre (see above). Treat symptoms as they occur.

5. Fire-fighting measures:

Extinguishing Media for small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing Media for large fires: Use alcohol-resistant foam.

Extinguishing Media which should not be used: Do not use a solid water jet as this may scatter and spread the fire.

Specific hazards during fire-fighting: Whilst the product is water-based and therefore not normally combustible, toxic fumes may be evolved on heating and these may contain NO_x, CO_x and P₂O₅.

Special protective equipment for fire-fighters: Wear full protective clothing and self-contained breathing apparatus. DO NOT breathe fumes.

Further Information: Contain fire-fighting water with sand or some such bunding material to prevent entry to drains or water courses. Avoid breathing smoke. Cool closed containers exposed to the fire with a water spray.

6. Accidental release measures:

Personal precautionary measures: Wear the personal protective equipment outlined in section 8 below. Remove contaminated clothing immediately. Wash skin area with soap and water. Wash clothing before re-use.

Environmental protection measures: Keep the area isolated and do not allow contamination to enter drains or waterways. Prevent further leakage if safe to do so. Spillage or uncontrolled discharges into watercourses must be alerted to the National Rivers Authority or Environmental Agency (Tel: 0800 807060).

Procedures for cleaning/absorption: Soak up with sand or other non-combustible absorbent material using mechanical handling equipment and place in containers for disposal according to local/national regulations (see section 13). Clean contaminated floors and objects thoroughly and dispose of cleaning equipment safely. For large spillages, barricade the area and consult the manufacturer.

7. Handling and storage:

Handling: Use the personal protective equipment detailed in section 8. Avoid contact with skin or eyes. When using, do not eat, drink or smoke and wash hands and exposed skin after work. Ensure tanks are well ventilated and keep away from sources of ignition.

Storage: Store in a cool dry and well-ventilated place in the original containers and protect from excessive heat or cold. Protect from frost. Keep out of the reach of children. Store away from food, drink and animal feeding stuffs. Do not mix or store in unlined mild steel or in galvanised containers.

Additional information: The product is stable for at least two years when stored at ambient temperatures in the unopened container. Ensure temperature does not exceed 40°C.

8. Exposure controls/Personal protection:

Occupational exposure limits: None assigned.

Engineering measures to reduce exposure: Engineering controls to avoid exposure are preferable to personal protective equipment where practically feasible to use. Good general ventilation is sufficient for most operations and local exhaust ventilation is needed in some situations.

Personal protective equipment: Avoid contact with skin, eyes or clothing. Keep work clothes separate from other clothing. Clothing that cannot be cleaned should be burned. When using, consult the label for appropriate protective equipment. In all other situations, use the following personal protective equipment.

Eye protection: Wear eye protection (face shield) when handling the concentrate or exposed to the spray.

Hand protection: Wear chemical-resistant gloves with a breakthrough time appropriate to the duration of the exposure. Wash contamination from the gloves immediately and dispose of safely if perforated or contaminated on the inside. Wash hands before eating, drinking or smoking and before using the toilet.

Respiratory protection: When handling opened containers of the product no special protective equipment is required.

Skin and body protection: Wear lightweight chemical-resistant protective clothing based on the potential exposure risk over normal clothes to provide two barriers. When finished, wash with soap and water after removing protective clothing. Decontaminate clothing before re-use or use disposable clothing. Do not eat, drink or smoke while working. Store away from food, drink or animal feeding stuffs.

9. Physical and chemical properties:

Appearance:	Light brown aqueous liquid.
Odour:	Amine-like smell.
Melting point:	-10°C.
Boiling point:	>100°C.
Density:	1.171g/cm ³ at 25°C.
pH:	4.6 at 20.6 g/l
Flashpoint:	Does not flash.
Miscibility:	Completely miscible in water.
Explosive risk:	Not explosive.
Oxidising properties:	Oxidising.

10. Stability and reactivity:

Hazardous decomposition products: No spontaneous or exothermic decomposition up to 100°C.

Conditions to avoid: Extremes of temperature (below -10°C or above 40°C) and direct sunlight. Do not store in galvanised or unlined mild steel containers. Avoid contact with strong bases.

Hazardous reactions: None known when stored or used as recommended.

11. Toxicological information:

Acute Oral toxicity (LD ₅₀):	>2000mg/kg (rat)
Acute dermal toxicity (LD ₅₀):	>4000 mg/kg (rat).
Acute inhalation toxicity (LC ₅₀):	3.18 mg/l (4 hour exposure)
Sensitisation:	Non-sensitising (rabbit).
Eye irritation:	Irritating to eyes (rabbit).

No persistent or cumulative effects have been observed.

12. Ecological information:

Ecotoxicological effects:

Toxicity to fish (LC ₅₀):	7.5 mg/l (<i>Onchorhyncus mykiss</i> [rainbow trout]). Exposure time 96 hours.
Toxicity to algae (EbC ₅₀):	16 mg/l (<i>Scenedesmus subspicatus</i> [green algae]). Exposure time 72 hours.
Toxicity to aquatic Invertebrates (EC ₅₀):	8.5 mg/l (<i>Daphnia magna</i> [water flea]). Exposure time 48 hours.
Toxicity to bees:	Not toxic to bees.
Toxicity to earthworms(LD ₅₀):	>5,000 mg/kg (<i>Eisenia foetida</i>). Exposure 14 days.

Note: Glyphosate has a low mobility in soil and is degraded by the action of soil organisms. It has a half life of 20 – 30 days in loamy soils under summer conditions. It does not bioaccumulate.

13. Disposal considerations:

Waste from residues and unused product: In accordance with current regulations after consultation with a disposal site operator and/or the responsible authority, this product may be taken to a waste disposal site or an incineration plant.

Contaminated packaging: Empty containers and triple rinse. Dispose of empty containers according to the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' available from HMSO. Do not re-use container for any purpose.

Waste key number: 02 01 08 (agrochemical waste containing dangerous substances).

14. Transport information:

LAND/SEA/AIR (RID / ADR / IMDG / IATA)

Labels	UN Number	Packaging group
9	3082	III

Description of goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate and ethoxylated tallow alkyl-amine).

15. Regulatory information:

This product has been classified according to 'The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments. Classification and labelling is according to EC Directive on dangerous preparations 1999/45/EC as amended.

Hazard symbol/

Classification : Xi IRRITANT
N DANGEROUS FOR THE ENVIRONMENT

Risk phrases (R): R41 Risk of serious damage to eyes.
R51/53 Toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

Safety phrases: S2 Keep out of reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S20/21 When using do not eat, drink or smoke.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 This material and its container must be disposed of in a safe way.
S37/39 Wear suitable protective gloves and face protection (face shield) when handling or applying the concentrate.
S46 If swallowed, seek medical advice immediately and show the container or label.
S57 Use appropriate containment to avoid environmental contamination.

16. Other information:

Health and Environmental Hazards:

Text of R phrases mentioned in Section 2.

Risk phrases (R) R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

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Disclaimer: The information contained in this MSDS is designed to give general health and safety guidance on the storage and transport of the substance/preparation to which it relates. Requirements arising from a Risk Assessment of the substance/preparation in a particular working environment should take precedence over any of the guidance contained in this MSDS where there is a difference in the information given. The information contained in this MSDS is accurate at the date of publication and will be updated as and when appropriate. Liability will not be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this MSDS.

Compiled in accordance with EC Directive 91/155/EEC and subsequent amendments EC Directives 93/112/EEC and 2001/58/EC.