

Material Safety Data Sheet

CHIKITA

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

MAPP Number: MAPP 14675

Trade Name: Chikita

Recommended Uses: An herbicide for total weed control on natural surfaces not intended to bear vegetation, permeable surfaces overlying soil and on railway ballast.

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

Telephone number: +44 (0) 845 459 4039

Mobile Number: 07786 318916

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
flazasulfuron	104040-78-0	-	25	50/53	N

* See Section 16 for details of risk phrases.

3. Hazards Identification

Health hazards: None.

Environmental hazard in case of accident (spillage or leakage): Very 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, AgChemAccess, 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 of water. Remove contaminated clothing and wash thoroughly before re-use. If irritation persists, call a physician.

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes, including under eyelids. Remove contact lenses if worn. Immediately consult an eye specialist.

Inhalation: Remove patient to fresh air and seek medical advice if respiratory problems occur. Keep the patient warm and at rest. Administer artificial respiration if the patients' breathing is irregular or has stopped.

Ingestion: If swallowed, rinse mouth with clean water and dispose of residues safely. Contact a physician if you feel unwell and show this MSDS or the label. DO NOT induce vomiting without medical advice.

Guide to Doctors: Treat symptoms as they occur. There is no specific antidote for this product.

5. Fire-fighting measures:

Extinguishing Media for small fires: Use alcohol-resistant foam, dry chemical (e.g. sand) or carbon dioxide.

Extinguishing Media for larger fires: Use alcohol-resistant foam or a water spray.

Extinguishing Media which should not be used for safety reasons: DO NOT USE a solid water stream as this may scatter and spread the fire.

Specific hazards during fire-fighting: During a fire toxic fumes or irritant vapours will be produced. Evacuate downwind. Fires will result in dense black smoke which will contain hazardous products of combustion such as nitrous vapours, hydrofluoric acid, sulphur oxides, carbon monoxide and carbon dioxide.

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: Stop dust cloud formation by covering with sand, dry earth or similar material and scoop up into 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: Ensure adequate ventilation and avoid raising a dust. Use the personal protective equipment detailed in section 8. Do not discharge waste into drains and clean contaminated clothing before re-use.

Storage: Store in a cool dry and well-ventilated place in the original containers and protect from excessive heat or cold. Keep in an area accessible to authorised personnel only. Keep out of reach of children and store away from food, drink and animal feeding stuffs. Stable for at least 2 years when stored at ambient temperatures in the original un-opened containers.

8. Exposure controls/Personal protection:

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas. Engineering controls to avoid exposure are preferable to personal protective equipment where practically feasible to use. Assess the exposure and deploy additional measures if there is a concern that any relevant exposure limit may be exceeded.

Personal protective equipment: 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: Follow local site procedure. Eye protection in the form of safety goggles or face shield is recommended in the event of dust production.

Hand protection: Chemical-resistant gloves made of rubber, PVC or plastic should be worn. 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: If there is dust production, wear a dust mask with a P1 filter.

Skin and body protection: Wear suitable protective clothing based on the potential exposure risk over normal clothes. Decontaminate clothing before re-use or use disposable clothing. Do not eat, drink or smoke while working.

9. Physical and chemical properties:

Appearance:	Granular.
Odour:	Smells of cinnamon.
Colour:	Brown.
Dynamic viscosity:	Not determined
pH:	5.06 (1% w/v)
Autoignition Temp:	Not determined
Density:	0.84 g/cm ³ at 20°C
Oxidising properties:	Non-oxidising
Explosive properties:	Not explosive
Water solubility:	Not determined.
Soluble in:	acetone, ethylacetate & dichloromethane

10. Stability and reactivity:

Hazardous decomposition products: Combustion or thermal decomposition will result in the release of toxic and irritant vapour containing nitrous vapours, hydrofluoric acid, sulphur oxides, carbon monoxide and carbon dioxide.

Hazardous reactions: Stable under normal conditions and hazardous polymerisation does not occur.

11. Toxicological information:

Acute oral toxicity (LD ₅₀):	4800 mg/kg (rat)
Acute dermal toxicity (LD ₅₀):	>2,000 mg/kg (rat).
Acute inhalation toxicity (LC ₅₀):	>6.17 mg/l (rat), [4 hour exposure].
Skin irritation:	Not listed.
Eye irritation:	Not listed.
Sensitisation:	Not listed.

Long-term exposure: This product showed no carcinogenic, mutagenic or teratogenic effects in animal experiments.

12. Ecological information:

Ecotoxicological effects:	
Toxicity to fish (LC ₅₀):	>100 mg/l (<i>Onchorhynchus mykiss</i> [rainbow trout]). Exposure time 96 hours.
Toxicity to algae (EbC ₅₀):	0.025 mg/l (<i>Selenastrum capricornutum</i> [Green algae]). Exposure time 72 hours.
Toxicity to aquatic Invertebrates (EC ₅₀):	>100 mg/l (<i>Daphnia magna</i> [water flea]). Exposure time 48 hours.

Flazasulfuron is not dangerous to the ozone layer. Data on the potential to bio-accumulate, persist in soil or water and mobility in soil is not available.

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.

14. Transport information:

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

Labels	UN Number	Packaging group
9	3077	III

Description of goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (flazasulfuron)

Marine pollutant: Yes

Classification code: M7

EMS: F-A, S-F

Packing instructions,
Passenger aircraft: 911/Y911
Cargo aircraft: 911

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. This product is classed as dangerous according to EC Directive on dangerous preparations 1999/45/EC.

Hazard symbol/
Classification : **N DANGEROUS FOR THE ENVIRONMENT**

Risk phrases (R): R50/53 Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

Safety phrases: S35 This material and its container must be disposed of in a safe way.
S57 Use appropriate containment to avoid environmental contamination.

Special note: To avoid risks to man and the environment, comply with the instructions for use.

16. Other information:

Health and Environmental Hazards:

Text of R phrases mentioned in Section 2.

Risk phrases (R)	R50	Very toxic to aquatic organisms.
	R53	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.