

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-20

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SECTION 1:Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Glufosinate-ammonium

Product Number : G114499
Brand : aladdin
CAS-No. : 77182-82-2

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®. Outside the USA :

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

2.2 GHS Label elements, including precautionary statements

Pictogram





Signal word

Hazard statement(s)

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

H360 May damage fertility or the unborn child

H373 Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P201 Obtain special instructions before use.



14078 Meridian Parkway, Riverside, CA. 92518

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms : 2-Amino-4-(hydroxymethylphosphinyl)butyric acid ammonium salt DL-

Phosphinothricin

Formula : C5H15N2O4P

Molecular weight : 198.16

CAS No. : 77182-82-2

EC-NO. : 278-636-5

Component	Classification	Concentration
Glufosinate-ammonium		
	no data available	analytical standard

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

Transfer to fresh air If breathing stops, perform artificial respiration If symptoms appear, seek medical treatment In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of any immediate medical attention and special treatment needed

no data available

SECTION 5: Firefighting measures



14078 Meridian Parkway, Riverside, CA. 92518

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Oxides of

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate

 ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for

Fluka - 45520 Page 3 of 7

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

br/>

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

no data available



14078 Meridian Parkway, Riverside, CA. 92518

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of

br/>workday.

Personal protective equipment

Eye/face protection

Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching

solve's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in

solve's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in

solve's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in

solve's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in

solve's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in

solve's outer surface).Wash and dry hands.

solve's Material tested:Dermatil? (KCL 740 / Aldrich Z677272, Size M)

solve's Dispose of contaminated gloves after use in

solve's Material tested:Dermatil? (KCL 740 / Aldrich Z677272, Size M)

solve's Dispose of contaminated gloves with outer substance in

solve's Dispose of contaminated gloves after use in

solve's Material tested:Dermatil? (KCL 740 / Aldrich Z677272, Size M)

solve's Dispose of contaminated gloves and contaminated gloves in

solve's Material tested:Dermatil? (KCL 740 / Aldrich Z677272, Size M)

solve's Dispose of contaminated gloves in

solve's Dispose of Contaminate

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the
br/>concentration and amount of the dangerous substance at the specific workplace.
ker/> Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100

hr/>(US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole

hr/>means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved

hr/>under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

no data available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance no data available b) Odour no data available c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing point 215 °C



14078 Meridian Parkway, Riverside, CA. 92518

f) Initial boiling point and boiling range no data available

g) Flash point >100 °C

h) Evaporation rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or

explosive limits no data available k) Vapour pressure no data available no data available I) Vapour density m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available no data available r) Viscosity s) Explosive properties N no data available t) Oxidizing properties N no data available

9.2 Other safety information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Oxides ofphosphorus

SECTION 11: Toxicological information



14078 Meridian Parkway, Riverside, CA. 92518

11.1 Information on toxicological effects

Acute toxicity

Skin - rabbit - No skin irritation

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes - Rabbit - Not irritating to eyes

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC.ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen or potential carcinogen by ACGIH.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as aknown or anticipated carcinogen by NTP.OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

no data available

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 710 mg/l - 96 h Toxicity to daphnia and other aquatic EC50 - Daphnia magna (Water flea) - 560 mg/l - 48 h Fluka - 45520 Page 6 of 7 invertebrates

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil



14078 Meridian Parkway, Riverside, CA. 92518

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste

disposal service to dispose of this material.

Contaminated packaging

no data available

SECTION 14: Transport information

DOT (US)

UN number: no data available Packing group: no data available Class: no data available

Proper shipping name: no data Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

available available available

Environmental Hazards: No

IMDG

UN number: no data available Packing group: no data available EMS-No: no data available

Proper shipping name: no data available

IATA

UN number: no data available Packing group: no data available Class: no data available

Proper shipping name: no data available

SECTION 15: Regulatory information

no data available

SECTION 16: Other information

Regulatory Affairs

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14078 Meridian Parkway, Riverside, CA. 92518

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SDS sections updated v1

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