

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: ametryn 731.5g/kg + trifloxysulfuron sodium 18.5g/kg
Substance: Water dispersible granule for Ametryn+trifloxysulfuron-sodium
Chemical name of Ametryn:
active ingredient: IUPAC Name:
*N*²,*N*⁴-diisopropyl-6-methylthio-1,3,5-triazine-2,4-diamine
CA Name:
N,N'-bis(1-methylethyl)-6-(methylthio)-1,3,5-triazine-2,4-diamine
Trifloxysulfuron sodium:
IUPAC Name:
N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(2,2,2-trifluoroethoxy)-pyridin-2-sulfonamide sodium salt
CA Name:
N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(2,2,2-trifluoroethoxy)-pyridin-2-sulfonamide sodium salt
Product Use: Agricultural herbicide
Manufacturer: Spinochem Tech Co.,Ltd
Address: No.2278,Zhaochong Rd,Shanghai,China.
Emergency telephone No.: +86 21 6423 8765

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008

Acute Toxicity (Category 4)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended

Harmful substances. Dangerous for the environment.

Label elements



Pictogram**Signal word:** Warning**Hazard statement(s)**

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Hazard symbol(s)

Xn Harmful substances

N Dangerous for the environment

Other hazards None.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS No.	Content, g/kg
Ametryn	834-12-8	731.5 g/kg
Trifloxysulfuron-sodium	199119-58-9	18.5 g/kg
Others	Not applicable	Up to 1000g

4. FIRST AID MEASURES**General advice**

Have the product container, label or Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

If swallowed

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

If inhaled

Move to clear atmosphere. Get medical attention. Treat symptomatically and supportively.

In case of skin contact

Take off contaminated clothing. Rinse skin immediately with soap and plenty of water for 15 to 20 minutes. If irritation develops, get medical attention

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling and/or in section 11

Note to physician

There is no specific antidote available. Treat symptomatically.

5. FIRE FIGHTING MEASURES**Suitable Extinguishing Media:**

For small fire: dry chemical powder, water spray, carbon dioxide.

For large fire: foam, water fog, water spray.

Special hazards arising from the substance or mixture

Oxides of nitrogen, oxides of sulfur and other unknown hazardous materials may be formed in a fire situation. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

Advice for firefighters

Wear protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

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

For personal protection see section 8.

Environmental precautions

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

Discharge into the environment must be avoided.

Method and material for containment and cleaning up

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

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes and skin. DO NOT inhale spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sun light. Avoid storage at high temperatures.

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters.

Exposure limits

Not available.

Acceptable Daily Intake (ADI):

Ametryn: (BfR) 0.015 mg/kg b.w. [1993]; (EPA) cRfD 0.072 mg/kg b.w. [2005]

Trifloxysulfuron-sodium: 0.15 mg/kg b.w.

No-observable-effect-level (NOEL):

Ametryn:Rats (2 y) for 50, for mice 10ppm; Dogs (1 y) for 200ppm.

Trifloxysulfuron-sodium: NOAEL (2 y) for rats 24 mg/kg b.w. daily; (1.5 y) for mice 112 mg/kg b.w. daily; (1 y) for dogs 15 mg/kg b.w.. daily.

Exposure controls

Appropriate engineering controls

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

Personal protection equipment

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when handling this product.

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

Respiratory protection If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

Environmental exposure controls

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

Discharge into the environment must be avoided.

User safety recommendations:

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light beige to brown granules
pH range: 8-12
Wettability, s: ≤ 120
Wet sieve test, % pass 75um sieve: ≥ 98
Degree of dispersion, % : ≥ 80
Suspensibility of Ametryn, %: ≥ 70
Suspensibility of Trifloxysulfuron sodium, %: ≥ 70
Persistent foam, ml: ≤ 45
Stability at elevated temperature: Stable

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Moisture, high temperature, direct sunlight.

Should be kept in a cool place, preferably below 30°C. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatible materials

Strong basic, acidic and oxidizing materials.

Hazardous decomposition products

Other decomposition products - No data available.

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Acute Oral	Rats: LD ₅₀ > 2,000 mg/kg
Inhalation	Rats: LC ₅₀ (4 h) > 2.56 mg/L air
Skin and Eye	Rats: Acute percutaneous LD ₅₀ > 2000mg/kg

Not a skin or eye irritant.
 Skin sensitization Not a skin sensitizer in guinea pigs.

12. ECOLOGICAL INFORMATION

Toxicity

Ametryn:

Bird	Mallard ducks:	LC ₅₀ (5 d) >5620ppm.
	Bobwhite quail	LC ₅₀ (5 d) >2250ppm.
Fish	Rainbow trout:	LC ₅₀ (96-hour) 3.6mg/L
	Bluegill sunfish:	LC ₅₀ (96-hour) 8.5mg/L
	Channel catfish	LC ₅₀ (96-hour) 25mg/L
Daphnia	Daphnia	LC ₅₀ (96 h) 28mg/L
Algae	Selenastrum	EC ₅₀ (7d) 0.0036mg/L.
	capricornutum:	
Bees	Bees	LD ₅₀ (oral) >100µg/bee.
		Low toxicity to bees.
Worms	Earthworms	LC ₅₀ (14d) >166mg/kg soil.

trifloxysulfuron-sodium:

Birds LD₅₀ for mallard ducks and bobwhite quail >2250 mg/kg.

Fish LC₅₀ (96 h) for rainbow trout and bluegill sunfish >100 mg/l.

Daphnia EC₅₀ (48 h) >100 mg/l.

Algae EC₅₀ (120 h) for Navicula >100

Other aquatic spp. EC₅₀ (96 h) for eastern oysters >100 mg/l;

Bees LD₅₀ (48 h) (oral and contact) >100 µg/bee.

Worms Acute LC₅₀ (14 d) >1000 mg/kg soil.

Other beneficial spp. Not harmful to Typhlodromus, Aphidius and Poecilus; no effect on soil microbes (respiration, nitrification) or on activated sewage sludge.

13. DISPOSAL CONSIDERATION

Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank.

DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return

clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill available, bury the containers below 500mm in a disposal pitspecifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of washings, contaminated materials, used absorbents and other waste materials as directed by local regulations.

14. TRANSPORT INFORMATION

UN number

ADR/RID: 3077

IMDG: 3077

IATA: 3077

UN proper shipping name

ADR/RID: Environmentally hazardous substance, Solid, N.O.S

IMDG: Environmentally hazardous substance, Solid, N.O.S

IATA: Environmentally hazardous substance, Solid, N.O.S

Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

Packaging group

ADR/RID: III

IMDG: III

IATA: III

Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

Special precautions for user

No data available.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.