



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

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Version: 1.0 Issue date: Oct. 10, 2020

MATERIAL SAFETY DATA SHEET OF

AMITRAZ 98% TC

1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

Product name: AMITRAZ 98% TC

Recommended use: Insecticide

Supplier: Shanghai Bosman Industrial Co., Ltd

Street address: No. 1611, North Sichuan Road, Hongkou, Shanghai R.P. China

Tel: + 86 21 63065878

Fax: + 86 21 63065878

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302

Skin corrosion/irritation, Category 2 H315

Skin sensitisation, Category 1 H317

Germ cell mutagenicity, Category 1A H340

Carcinogenicity, Category 1A H350

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract
Irritation H335

Specific target organ toxicity — Repeated exposure, Category 2 H373

Hazardous to the aquatic environment —Acute Hazard, Category 1 H400

Hazardous to the aquatic environment —Chronic Hazard, Category 1 H410

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display
Extra classification(s) to display

Hazard pictograms (CLP) :

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GHS07



GHS08



GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : **H302 - Harmful if swallowed**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H335 - May cause respiratory irritation

H340 - May cause genetic defects

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P260 - Do not breathe dust, fume, vapours, mist, spray

P280 - Wear protective gloves, protective clothing, Wear respiratory protection, In case of dust production: protective goggles

P308+P313 - IF exposed or concerned: Get medical advice

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P501 - Dispose of contents and container to an approved waste disposal plant

3.COMPOSITION/INFORMATION ON INGREDIENTS

Formulation: Technical grade (TC)

IUPAC name:

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Other ingredients determined not to be hazardous

INGREDIENT	CAS NO	PROPORTION(%, w/w)
Amitraz	33089-61-1	98 min
Other ingredients	--	Up to 100%

4. FIRST AID MEASURES

First-aid measures general : Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand. IF exposed or concerned: Get medical advice/attention.

If inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration as needed. Get immediate medical advice/attention.

If skin contact : Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

If eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.

If ingestion : Rinse mouth. Drink two glasses of water. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Obtain emergency medical attention.

Advice to doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard : Presents no particular fire or explosion hazard.

Hazardous decomposition products in case of fire: For further information, refer to section 10 : "Stability and Reactivity".

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise

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caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust, fume, vapours, mist, spray.

Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Do not breathe dust, fume, vapours, mist, spray.

Conditions for Safe Storage: Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and direct sunlight.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No additional information available

Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Eye protection:

In case of dust production: protective goggles. DIN EN 166

Skin and body protection:

Wear suitable protective clothing. CEN : EN 340; EN 369; EN 465

Respiratory protection:

Wear respiratory protection. EN 143

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Powder

Color : White to light yellow

Odor : NA

pH : 8.0-11.0

Flash point: NA

Melting Point: NA

Corrosive: NA

Oxidisation: NA

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions of use. Highly flammable liquid and vapour.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No additional information available

Conditions to avoid

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Keep away from heat and direct sunlight.

Incompatible materials

No additional information available

Hazardous decomposition products

Combustion generates : Carbon oxides (CO, CO₂). hydrogenchloride. Hydrogen cyanide.
Carbon oxides (CO, CO₂). Nitrogen oxides (NO_x). May
liberate toxic gases.

11. TOXICOLOGICAL

Acute toxicity

Acute oral toxicity: Acute oral LD₅₀ for rats 650, mice >1600 mg/kg.

Acute skin and eye toxicity: Acute percutaneous LD₅₀ for rabbits >200, rats >1600 mg/kg.

Acute inhalation toxicity: LC₅₀ (6 h) for rats 65 mg/l air.

Chronic toxicity

NOEL In 2 y feeding trials, no adverse effect observed in rats receiving 50–200 ppm diet, or
in dogs dosed 0.25 mg/kg daily. Human NOEL >0.125 mg/kg daily.

12. ECOLOGICAL INFORMATION

Birds LD₅₀ for bobwhite quail 788 mg/kg. LC₅₀ (8 d) for mallard ducks 7000, Japanese
quail 1800 mg/kg.

Fish LC₅₀ (96 h) for rainbow trout 0.74, bluegill sunfish 0.45 mg/l. Due to rapid hydrolysis,
it is unlikely that this toxicity will be expressed in natural aquatic systems.

Daphnia LC₅₀ (48 h) 0.035 mg/l. Due to rapid hydrolysis, it is unlikely that this toxicity will
be expressed in natural aquatic systems.

Algae EC₅₀ for *Selenastrum capricornutum* >12 mg/l.

Bees Low toxicity to bees and predatory insects. LD₅₀ (contact) 50 µg/bee (formulation).

Worms LC₅₀ (14 d) for earthworms >1000 mg tech./kg.

13. DISPOSAL CONSIDERATION

Triple rinse container and add rinsate to spray tank, burn, if circumstances, especially wind
direction permit, otherwise dispose of at an approved landfill. Dispose of this product only by
using in accordance with label directions. Dispose of liquid contaminated material/or

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contaminated soil in an approved landfill. Disposal must be in accordance with applicable local regulations.

14. TRANSPORT INFORMATION

DOT

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
NO.S. (amitraz)

Class : 9

Packing group : III

IATA

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
NO.S. (amitraz)

Class : 9

Packing group : III

Marine pollute: Yes

IMDG

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
NO.S. (amitraz)

Class : 9

Packing group : III

15. REGULATORY INFORMATION

Follow all local, international decree, regulation and laws.

16. OTHER INFORMATION



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This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact the company.

-- END OF MSDS --