Material Safety Data Sheet

Bifenazate

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

1.1 Product identifiers

Product name	: Bifenazate
CAS No.	: 149877-41-8
Chemical Formula:	: $C_{17}H_{20}N_2O_3$

1.2 Details of the supplier of the safety data sheet

Company	: Ningbo Huili Import & Export Co., Ltd. ROOM 1403, No.757, RILI MIDDLE ROAD, YINZHOU, NINGBO, CHINA
Telephone	:0086574-87641888
Fax	:0086574-87641880

SECTION 2: Hazards identification

GHS Classification:	Skin sensitization (Category 1), H317 Specific target organ toxicity - repeated exposure (Category 2), H373 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410
Signal word	Warning
Hazard statement(s)	
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P260	Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.

Response	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P314	Get medical advice/ attention if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

SECTION 3: Composition/information on ingredients

Chemical name	CAS No.	Content %
Spirodiclofen	149877-41-8	98
Others	-	

SECTION 4: First aid measures

Eyes: After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Skin: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
Swallowed: After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

SECTION 5: Firefighting measures

Suitable extinguishing media	Water Foam Carbon dioxide (CO_2) Dry powder.
Special hazards arising from the substance or mixture	Carbon oxides; Nitrogen oxides (NOx); Combustible.
Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures

Emergency procedures: Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
Material and methods for containment and cleanup procedures: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose

of properly. Clean up affected area. Avoid generation of dusts..
Environmental precautions: Do not let product enter drains.

SECTION 7: Handling and storage

Precautions for Safe Handling: Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. Work under hood. Do not inhale substance/mixture.
Conditions for safe storage: Tightly closed. Dry.

SECTION 8: Exposure controls/personal protection

Respiratory Protection: required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.
Eye/face Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
Skin Protection: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.
Control of environmental exposure: Do not let product enter drains.

SECTION 9: Physical and chemical properties

Appearance	: White crystalline
Melting Point:	: 123 - 125 °C - lit.
Dissociation constant	: 12.94 at 23 °C

SECTION 10: Stability and reactivity

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).
Incompatible materials: Acids, Strong oxidizing agents.
Hazardous decomposition products: Combustion generates: Carbon oxides (CO, CO_2). Nitrogen oxides (NOx). Gas /vapours, harmful.

SECTION 11: Toxicological information

Oral LD_{50}: >5000 mg/kg (rat)
Inhalation LD_{50}: >4.4 mg/L (rat)
Dermal LD_{50}: >5000 mg/kg (rat)

SECTION 12: Ecological information

Persistence and degradability: aerobic - Exposure time 0.33 d
Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.
anaerobic - Exposure time 77.9 d
Bioaccumulative potential: Accumulation in aquatic organisms is expected.
Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

SECTION 13: Disposal considerations

Waste treatment methods: Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14: Transport information

UN proper shipping name :ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Bifenazate)

SECTION 15: Regulatory information

According to local authorities' requirements.

SECTION 16: Other information

None

----------The End----------