

MATERIAL SAFETY DATA SHEET**AFIFEN 108 g / ltr EC****SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION****Product name:** Pyriproxyfen 100 g/l EC**Chemical name:** 2-(4,6-dimethoxypyrimidin-2-ylcarbamoyl sulfamoyl)-*N,N*-dimethylnicotinamide**Chemical name:** 4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**Company identification:**

Nantong Shizhuang Chemical Co., Ltd.

No.88, Renmin West Road, Nantong, Jiangsu 226005, P.R. China

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Concentration
Pyriproxyfen	95737-68-1	100 g/l
Inerts	--	Balance

SECTION 3 – HAZARDS IDENTIFICATION**Primary Routes of Exposure:** Inhalation, Skin Contact, and Eye Contact.**Inhalation:** Inhalation of mist may cause irritation of nose and throat.**Eye Contact:** Direct contact with material may cause eye irritation.**Skin Contact:** Prolonged or repeated skin contact may cause skin irritation.**SECTION 4 – FIRST AID MEASURES****Ingestion:** Wash out mouth with water. Do not induce vomiting.**Eye contact:** Flush eyes immediately with clear water for at least 15min and obtain medical aid.**Skin contact:** Take off contaminated clothing, rinse skin immediately with plenty of water for 15-20 minutes.**Inhalation:** Move subject to fresh air.**Note to physician:** No specific antidote. Treat symptomatically.**SECTION 5 – FIRE FIGHTING MEASURES****Flammability:** Non-flammable but combustible if ignition.**Extinguishing media:** Water spray, carbon dioxide, foam, dry agent.**Special fire fighting procedures:** Wear full protective equipment and breathing protection. Avoid creating significant airborne dust. Spray unopened containers with water to keep cool. Contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water. Dispose of fire control extinguishing agent and spillage later in safe manner.**Unusual fire and explosion hazards:** Toxic gases including carbon monoxide, carbon dioxide, oxides of nitrogen, and smoke.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled material or contaminated surfaces. Do not smoke, eat or drink during the clean process. Wear personal protective clothing and equipment. Prevent spilled material from entering drains or watercourses. Contain spill. Transfer collected material to drums. Seal and label them for safe disposal. Deal with all spillages immediately.

SECTION 7 – HANDLING AND STORAGE

Handling product: Keep out of reach of children. Avoid contact with eyes and skin and avoid inhalation of product. If product on skin, immediately wash area with soap and water.

Storage: Store in the closed, original container in a cool, secure, well-ventilated area. Do not store for prolonged periods in direct sunlight. Protect from frost.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Eye protection: Safety goggles or face shield.

Skin protection: Cotton overall buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves.

Respiratory protection: Respiratory protection is not normally required. If airborne concentrations are likely to exceed the exposure standards above, an approved respirator should be worn.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow to colorless clear liquid

Melting point: Not applicable

Vapor pressure (mPa): Negligible at 25°C

Specific Gravity: 0.925 ± 0.025 g/ml

Solubility (g/l): Form emulsion with water

Molecular formula: $C_{20}H_{19}NO_3$

Molecular weight: 321.4

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions to avoid: Extreme heat, strong acids, bases and strong oxidizing agents.

Incompatibility with other materials: Strong alkalis.

Hazard decomposition: Toxic compounds of carbon, nitrogen and chlorine may be given off when exposed to extreme heat or fire.

Hazardous polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity LD₅₀ (mg/kg, rat): Oral > 5000 mg/kg, Dermal >2000 mg/kg.

Irritation: Not irritating to skin and slight irritating to eyes.

SECTION 12 – ECOLOGICAL INFORMATION

Effects on birds: Acute oral LD₅₀ for mallard duck and bobwhite quail > 2000 mg/kg

Effects on fish: LC₅₀ (96 h) for rainbow trout (*Oncorhynchus mykiss*) and bluegill (*Lepomis macrochirus*) > 0.35 mg/l (maximum concentration in water).

Effects on other organisms: Bees: (48 h, contact) > 20 µg/bee. Practically non-toxic.

SECTION 13 – DISPOSAL CONSIDERATION

For disposal, incinerate this material at a facility that complied with local, state and country regulations.

SECTION 14 – TRANSPORT INFORMATION

Not regulated as dangerous cargo.

SECTION 15 – REGULATORY INFORMATION

Not regulated.

SECTION 16 – OTHER INFORMATION

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