Material Safety Data Sheet

Cloransulam-methyl

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

1.1 Product identifiers

Product name : Cloransulam-methyl
CAS No. : 147150-35-4
Chemical Formula: : $C_{15}H_{13}ClFN_5O_5S$

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: : Acute toxicity, Inhalation (Category 4), H332;
Acute aquatic toxicity (Category 1), H400;
Chronic aquatic toxicity (Category 1), H410.
Signal word : Warning
Hazard statement(s)
H332 : Harmful if inhaled.
H410 : Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)
P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 : Use only outdoors or in a well-ventilated area.
P273 : Avoid release to the environment.
P304 + P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 : Call a POISON CENTER or doctor/ physician if you feel unwell.
P391 : Collect spillage.
P501 : Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

Chemical name	CAS No.	Content % w/v
Cloransulam-methyl	147150-35-4	97.5
Others	-	

SECTION 4: First aid measures

Eyes: Flush eyes with water as a precaution.
Skin: Wash off with soap and plenty of water. Consult a physician.
Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: Firefighting measures

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas, Hydrogen fluoride.
Advice for firefighters	: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
Material and methods for containment and cleanup procedures: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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.

SECTION 7: Handling and storage

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. For precautions see section 2.2.
Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

SECTION 8: Exposure controls/personal protection

Respiratory Protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye /face Protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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.

SECTION 9: Physical and chemical properties

Appearance	: Powder, off-white
Melting Point	: 216 - 218 °C
Density	: 1.538 g/cm^3 at 20 °C
Water solubility	: 0.184 g/l at 25 °C

SECTION 10: Stability and reactivity

Chemical stability: Stable under recommended storage conditions.

Incompatible materials: Strong oxidizing agents, Strong acids and strong bases.

Hazardous decomposition products: In the event of fire: see section 5.

SECTION 11: Toxicological information

Inhalation LD_{50}: >3.77 mg/L-4 h (rat).

Dermal LD_{50}: >2000 mg/kg (rat).

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

SECTION 12: Ecological information

Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 86 mg/l - 96 h.
Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Water flea)-163 mg/l -48 h.
Toxicity to algae Growth inhibition: EC50 - Pseudokirchneriella subcapitata - 0.0035 mg/l - 72 h.
Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects: Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Waste treatment methods: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

SECTION 14: Transport information

Packing group	III
UN proper shipping name	: Environmentally hazardous substance, solid, n.o.s.
Further information	: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: Regulatory information

According to local authorities' requirements.

SECTION 16: Other information

None

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