



MATERIAL SAFETY DATA SHEET

PRODUCT : Spiromesifen 22.9% SC

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Spiromesifen 22.9% SC

Grade : Formulation

Active Ingredient : Spiromesifen

Chemical Name of Active Ingredient (IUPAC) : [2-oxo-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4]non-3-en-4-yl] 3,3-dimethylbutanoate

Chemical Family of A. I. : Insecticide

CAS NO. : 283594-90-1

Molecular Formula of A. I. : C₂₃H₃₀O₄

Molecular Mass of A. I. : 370.5g/mol

Manufacturer & Supplier : M/s Solas Cropotech Private Limited

Head office: 36, Strand Road, 4th Floor, Room No-01,
Kolkata-700001

Telephone Number : (033) 2231-3306

Section 2. Composition / Information on Ingredients

Name of the Component	Concentration % w/w
Spiromesifen a.i	22.9% w/w
Other Ingredients	77.1% w/w
Total	100 % w/w

Section 3. Hazards Identification

Inhalation Nausea, headache, dizziness

Skin Irritating with itching, burning and swelling

Eyes Mildly Irritating with tearing.



Toxicity Class III

Section 4. First Aid Measures

FIRST AID:

General Information:

Skin contact: Wash off with soap and plenty of water. If symptoms persist, call a physician. Take off contaminated clothing and wash before reuse.

Eye contact: If eye irritation persists, consult a specialist.

Ingestion: Rinse mouth with water. If victim is fully conscious, give a cupful of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not give milk or alcoholic beverages. Obtain medical attention

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or poison control centre immediately. If breathing is difficult, give oxygen. Keep respiratory tract clear.

Further Information:

Treatment: The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

Section 5. Fire Fighting Measures

Specific hazards: Do not allow run-off from fire fighting to enter drains or water courses.

Extinguishing media and methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Recommended protective clothing: Wear full protective clothing and Use personal protective equipment.

Suitable Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for Safety reasons: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local



regulations.

Special protective equipment For fire fighters: Wear full protective clothing and self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities

Soil Spill procedures: Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and Absorb with further respective authorities.

Section 7. Handling & Storage

Precautions for Safe Handling: General precautions for handling of chemicals should be applied. Provide good ventilation system, or local exhaust ventilation if necessary, in working area.

Conditions for Safe Storage: Store in a dry and cool place where there is no direct sunlight. Keep a container in a well-ventilated place. Keep away from heat.

Incompatibles: Do not mix with water except during preparation procedures.

Section 8. Exposure Control, Personal Protection

Exposure Limit Values : Not known

Personal Protection : When used in a closed / automated system, personal protection equipment may not be required. When closed system is not possible in case of maintenance, repair, sampling etc, systems must be made nonhazardous before opening

Respiratory Protection : The product is likely to pose inhalation exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a vapours or mist, workers should put on respiratory protection equipment with a universal filter.



Protective Gloves : Wear heavy duty natural rubber gloves.

Eye Protection : Wear goggles, face shield or safety glasses. It is recommended to have an eye wash fountain available in the work area.

Skin Protection : Wear appropriate protective clothing to prevent direct skin contact.

Section 9. Physical and Chemical Properties

Appearance / state	: Liquid
Colour	: white
Odour	: slight, product specific
Melting point	: NA
Vapour pressure	: NA
PH	: 4.9
Density	: 1.06 g/ml at 20 °C
Flammability	: Non-Flammable

Section 10. Stability & Reactivity

Incompatibility: Amino or acid vapours. Strong acids.

Polymerization : Does not polymerize.

Hazardous decomposition : Decomposes in high temperature to hydrogen chloride and oxides of hydrogen and copper.

Section 11. Toxicological Information

Acute Oral Toxicity- LD₅₀	Rat: >1700 mg/kg b.w.
Acute Dermal Toxicity- LD₅₀	Rat: >2000 mg/kg b.w
Acute Inhalation - LD₅₀ (4h)	Rat: > 2 mg/l
Eye irritation	Non- Irritating to eyes
Skin Irritation	Non- irritating
Skin Sensitization	A non -skin sensitizer



Section 12. Ecological Information

Toxicity to Birds	LD ₅₀ for Japanese Quails 511mg/kg
Toxicity to Fishes	LC ₅₀ (96h), rainbow trout: 43.8 mg/l
Toxicity to daphnia	NA
Toxicity to Algae	EbC ₅₀ : 0.29 mg/l

Section 13. Disposal Consideration

Product: Dispose of product by using it in accordance with the label. Do not burn. Waste product should be disposed of to an approved landfill.

Container: Dispose of to an approved landfill or agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

Section 14. Transport Information

IMDG Classification

Shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROMESIFEN)
Class	: 9
Packing group	: III
UN number	: 3082
Marine pollutant	: Yes

Section 15. Regulatory Information

Approved handlers : This product must be under the care of an approved handler during use. Tracking requirements apply.

Section 16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are resented in good faith and believed to be correct. This information



applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by **M/S SOLAS CROPTECH PRIVATE LIMITED** to the results to be obtained based upon the user's use of the information, nor does **M/S SOLAS CROPTECH PRIVATE LIMITED**, assume any liability arising out of user's use of the information.

Safety Division: SOLAS CROPTECH PRIVATE LIMITED