



MATERIAL SAFETY DATA SHEET
Smash 100 EC

Revised : 01/01/2023

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trade Name	Smash 100 EC
Company Name	PT. Kristalindo Karunia International
Company Address	Jl. Kelapa Puan Raya Blok CA 24 No 15, Gading Serpong, Pakulonan Barat Kelapa Dua
Telephone / Fax Number	021-22052845
Contact address in case of Emergency	Jl. Kelapa Puan Raya Blok CA 24 No 15, Gading Serpong, Pakulonan Barat Kelapa Dua
Emergency telephone number	021-22052845

2. COMPOSITION/INFORMATION OF INGREDIENT

Chemical Name (IUPAC)	(RS)-alfa-cyano-3-phenocybenzyl (1RS, 3RS,1RS; 3SR)3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropanecarboxylate
CAS Number	52315-07-8
Common Name	cypermethrin
Concentration	10%
Chemical Family	synthetic pyrethroid
Formula	C ₂₂ H ₁₉ Cl ₂ NO ₃
Molecular Mass	416,3
Use	Insecticide

3. HAZARD IDENTIFICATION

Hazard Identification of Active Ingredients : Toxic to aquatic life. Avoid contamination of surface water.

4. FIRST AID MEASURES

Special instructions

Inhalation	Remove person to fresh air. Seek medical advice. If breathing is difficult, oxygen may be administered under nursing or medical supervision.
Contact with skin	Remove all contaminated clothing; wash off exposed skin with plenty of soap and water. Seek medical advice if there is more than trivial exposure.
Splashes in eyes	Flush immediately with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Ingestion	Wash out mouth. Give plenty of water or bland fluids to drink. Get medical attention.
Information for doctor or other trained persons giving first aid	No specific antidote known. If the patient is conscious and is known to have swallowed cypermethrin, it may be useful to carry out gastric may be helpful in reducing further absorption of the lavage. Activated charcoal compound. Symptomatic treatment and supportive therapy is indicated.

5. FIRE - FIGHTING MEASURES

Suitable extinguishing media	Foam, CO ₂ , dry sand, chemical powders
Unsuitable extinguishing media	Jets of water
Special exposure hazard in a fire	As for all organic materials, combustion may lead to hazardous oxides of carbon and other toxic fumes.
Special protective equipment for fire-fighting	Wear a self contained respiratory apparatus. Wear protective clothing.



Other instructions

Cool fire-exposed containers with water fog and avoid environmental contamination with extinguishing water.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear an air-supplied respirator or use adequate ventilation to prevent inhalation. Wear suitable protective clothing and eye protection to avoid contact with eyes and skin.

Environmental precautions

The material is toxic to fish and wildlife. Avoid soil and water contamination.

Methods for cleaning up

Soak up with and or other material. Collect thoroughly into suitable containers. Rinse the polluted area with water and suitable detergents. Collect waste waters for treatment.

7. HANDLING AND STORAGE

Handling

Special protection measure

When using, do not eat, drink or smoke. Wash hands and exposed skin before meals and after work.

Storage

Sensitivity to damp, light and Oxidation

Stable under normal atmospheric conditions when stored in closed containers.

Special storage requirements

Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. Keep container in well ventilated place.

Storage conditions

Keep in dry and well ventilated place at low temperature.

Shelf life

At least 2 years if properly packed and stored.

Recommended packaging material

Carton, packed with polyethylene bag.

Supplier packaging

Carton, packed with polyethylene bag.

Packaging material to be avoided

No special material.

Incompatible substances

Sensitive to alkalis. Unstable in methyl and ethyl alcohol solution.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Limit values for workplace air

STEL/TWA/IDLH

None established

Personal protective equipment

Respiratory protection

Wear mask with filter for organic dust.

Hand protection

Wear suitable protective gloves.

Eye Protection

Wear safety glasses or goggles.

Skin protection

Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Liquid

Color and odor

Yellow-brownish

pH

4

Boiling point/boiling range

NA

Melting point/melting range

NA

Flash point

>110 °C

Flammability (solid/gas)

NA

Auto flammability (ignition point)

Not auto flammable

Explosion hazard

Non explosive

Oxidizing properties

NA

Vapor pressure

NA

Relative density

1,15

Solubility in water

soluble

Solubility inorganic solvents

NA

10. STABILITY AND REACTIVITY

Hazardous reactions

Unknown

Sensitivity to jolting

None

Condition to avoid

Avoid spark generation and flames.

Material to avoid

Strong alkali and acids.

Hazardous decomposition product

Combustion may lead to hazardous oxides of carbon and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD₅₀ oral (rat)

2.020,403 (formulation)

LD₅₀ dermal (rat)

>2.000 (formulation)

LC₅₀ inhalation (rat, 4 h)

2,5 mg/l

Corrosiveness

Not corrosive

Irritancy

Eye irritancy

slight irritant

Skin irritancy

slight irritant

Sensitization

Skin sensitization

weak sensitizer

Effects on humans

NA

12. ECOLOGICAL INFORMATION

Persistence in the environment

Biodegradation

Degradable by microorganisms present in soil and water.

Chemical degradation

It can be hydrolyzed by the alkali and bleaching liquid.

13. DISPOSAL CONSIDERATIONS

Product

Wastes resulting from the use of this product may be disposed at an approved waste disposal facility.

Empty packing

Disposal or incineration methods based on state or local codes of practice and laws.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

ADR Class (road): Not listed

IMDG Class: Not regulated

IATA Class (air): Not regulated

PACKING GROUP: Not applicable

MARINE POLLUTANT: No

15. REGULATORY INFORMATION

Symbol: Xn, Xi, N

Indication of danger: Harmful; Irritant; harmful to the environment.

Risk phrase(s):

R 20/22 Harmful by inhalation and if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R 43 May cause sensitization by skin contact.

R 51 Toxic to aquatic organisms.

R 57 Toxic to bees.

Safety phrases:

S 2 Keep out of reach children.

S 23 Do not breathe vapor/spray/dust.

S 24/25 Avoid contact with skin and eyes.



S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

References : Not available.