# 江苏泛华集团

# 江苏泛华农化有限公司



JIANGSU INTER CHINA-GROUP CORPORATION

Addr: NO. 116 Dingmaoqiao Road, ZhenJiang, Jiangsu, China

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### **Material Safety Data Sheet of D-Allethrin**

### 1.IDENTIFICATION OF THE PRODUCT

### 1.1 Identification of the substance

**Product name:** Rich-d-trans-allethrin **Common name:** Rich-d-trans-allethrin

Structural formula:

Rich-d-trans-allethrin consists of [1R,trans;1R] + [1R,trans;1S] +[1R,cis;1R] + [1R,cis;1S]

### 1.2 Identification of the supplier

Company name: Jiangsu Inter-China Group Corporation

### 2. COMPOSITIONANFORMATION ON INGREDIENTS

Ingredient	CAS No.	Concentration
D-Allethrin	N/A (1)	95% min
D-trans-allethrin	N/A (1)	88% min
Other ingredients		Balance to 100%

(1) CAS number for racemic allethrin: 584-79-2

### 3. HAZARDS IDENTIFICATION

### 3.1 GHS Classification

Acute toxicity, Oral (Category 4)

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Acute toxicity, Inhalation (Category 4)

Acute aquatic toxicity (Category 1)

3.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed. H332 Harmful if inhaled.

H400 Very toxic to aquatic life.

Precautionary statement(s)

Prevention

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you

feel unwell.

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.

P330 Rinse mouth.
P391 Collect spillage.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

### 3.3 Other hazards - none

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

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### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

# **4.3 Indication of any immediate medical attention and special treatment needed** no data available

### 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

### 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

### 6.2 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.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

### 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

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Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

### **Occupational Exposure Limits**

We are not aware of any national exposure limit.

### 8.2 Exposure controls

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

### **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.

### **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).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

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a)	Αŗ	opea	rance
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b) Odour

c) Odour Threshold

d) pH

e) Melting point/freezing point

f) Initial boiling point and boiling range

g) Flash point

h) Evapouration rate

i) Flammability (solid, gas)

j) Upper/lower flammability or explosive limits

k) Vapour pressure

I) Vapour density

m) Relative density

n) Water solubility

o) Partition coefficient: noctanol/water

p) Auto-ignition temperature

q) Decomposition temperature

r) Viscosity

s) Explosive properties

t) Oxidizing properties

Form: liquid

no data available

66.00 °C

no data available

0.997 g/cm3 at 20 °C

Insoluble

no data available

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### 9.2 Other safety information

no data available

### 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

### 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - rat - 685 mg/kg

LC50 Inhalation - mouse - > 2,000 mg/m3

LD50 Dermal - rabbit - 11,332 mg/kg

Remarks: Behavioral:Tremor. Behavioral:Excitement.

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitisation

no data available

### Germ cell mutagenicity

Hamster

Lungs

Cytogenetic analysis

Ames test

S. Typhimurium

Human

fibroblast

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Result: negative

Unscheduled DNA synthesis

Carcinogenicity

IARC: 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.

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### **Aspiration hazard**

no data available

### **Additional Information**

RTECS: GZ1925000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### 12. ECOLOGICAL INFORMATION

### **12.1 Toxicity**

Toxicity to fish LC50 - Cyprinus carpio (Carp) - 0.032 mg/l - 96.0 h
Toxicity to daphnia and EC50 - Daphnia pulex (Water flea) - 0.021 mg/l - 48 h
other aquatic invertebrates

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

Very toxic to aquatic life.

### 13. DISPOSAL

### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix

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the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: 3082 IMDG: 3082 IATA-DGR: 3082

### 14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allethrin) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allethrin)

IATA-DGR: Environmentally hazardous substance, liquid, n.o.s. (Allethrin)

### 14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA-DGR: 9

### 14.4 Packaging group

ADR/RID: III IMDG: III IATA-DGR: III

#### 14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA-DGR: yes

### 14.6 Special precautions for user

### **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.

### 15. Regulatory Information

Not applicable.

### **16. OTHER INFORMATION**

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS