

## Material Safety Data Sheet

### Trinexapac-ethyl

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

##### Product identifier

Product name : Trinexapac-ethyl  
 CAS : 95266-40-3  
 Other names: Moddus;ethyl 4-[cyclopropyl(hydroxy)methylidene]-3,5-dioxocyclohexane-1-carboxylate;Trinexapac-ethyl

##### Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified uses: Industrial and scientific research use.
- Uses advised against: no data available

##### Company Identification

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

##### 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

##### 2.2 GHS label elements, including precautionary statements

##### Pictogram(s)



<b>Signal word</b>	Warning
<b>Hazard statement(s)</b>	H410 Very toxic to aquatic life with long lasting effects
<b>Precautionary statement(s)</b>	
<b>Prevention</b>	P273 Avoid release to the environment.
<b>Response</b>	P391 Collect spillage.
<b>Storage</b>	none
<b>Disposal</b>	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**2.3 Other hazards which do not result in classification**

no data available

**SECTION 3: Composition/information on ingredients****Substance**

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
4-(cyclopropyl-hydroxy methylene)-3,5-dioxo- cyclohexanecarboxylic acid ethyl ester 4-(cyclopropyl-hydroxy-methylene)-3,5-dioxo- cyclohexanecarboxylic acid ethyl esterTrinexapac-ethyl ethyl (RS)-4-cyclopropyl(hydroxy)methylene-3,5-dioxocyclohexanecarboxylateethyl 4-cyclopropyl(hydroxy)methylene-3,5-dioxocyclohexanecarboxylate	4-(cyclopropyl-hydroxy methylene)-3,5-dioxo- cyclohexanecarboxylic acid ethyl ester 4-(cyclopropyl-hydroxy-methylene)-3,5-dioxo- cyclohexanecarboxylic acid ethyl esterTrinexapac-ethyl ethyl (RS)-4-cyclopropyl(hydroxy)methylene-3,5-dioxocyclohexanecarboxylateethyl 4-cyclopropyl(hydroxy)methylene-3,5-dioxocyclohexanecarboxylate	95266-40-3	-	100%

**SECTION 4: First aid measures****Description of first aid measures****4.1 Description of necessary first-aid measures****If inhaled**

Fresh air, rest. Refer for medical attention.

**Following skin contact**

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention .

**Following eye contact**

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

**Following ingestion**

Refer for medical attention .



#### **4.2 Most important symptoms/effects, acute and delayed**

no data available

#### **4.3 Indication of immediate medical attention and special treatment needed, if necessary**

no data available

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### **SECTION 5: Firefighting measures**

#### **5.1 Suitable extinguishing media**

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

#### **5.2 Specific hazards arising from the chemical**

Combustible. Liquid formulations containing organic solvents may be flammable.

#### **5.3 Special protective actions for fire-fighters**

Use water spray, powder, foam, carbon dioxide.

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### **SECTION 6: Accidental release measures**

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

Do NOT wash away into sewer. Sweep spilled substance into covered sealable containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations. Personal protection: P2 filter respirator for harmful particles.

#### **6.2 Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

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

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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### **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.



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**Conditions for safe storage, including any incompatibilities**

Provision to contain effluent from fire extinguishing. Separated from food and feedstuffs. Well closed.

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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational Exposure limit values**

no data available

**Biological limit values**

no data available

**8.2 Appropriate engineering controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

**8.3 Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

Wear safety spectacles.

**Skin protection**

Protective gloves.

**Respiratory protection**

Use local exhaust.

**Thermal hazards**

no data available

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**SECTION 9: Physical and chemical properties****Information on basic physicochemical properties**

<b>Physical state</b>	WHITE POWDER.
<b>Colour</b>	no data available
<b>Odour</b>	no data available
<b>Melting point/freezing point</b>	32-36°C
<b>Boiling point or initial boiling point and boiling range</b>	467.6°C at 760 mmHg
<b>Flammability</b>	no data available



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<b>Lower and upper explosion limit/flammability limit</b>	no data available
<b>Flash point</b>	250.7°C
<b>Auto-ignition temperature</b>	355°C
<b>Decomposition temperature</b>	no data available
<b>pH</b>	no data available
<b>Kinematic viscosity</b>	no data available
<b>Solubility</b>	Solubility in water, g/100ml at 20°C: 0.28-2.11 (pH-dependent)
<b>Partition coefficient n-octanol/water</b>	2.44 (pH-dependent)
<b>Vapour pressure</b>	0.003 Pa(20°C)
<b>Density and/or relative density</b>	1.558 g/cm <sup>3</sup>
<b>Relative vapour density</b>	no data available
<b>Particle characteristics</b>	no data available

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## SECTION 10: Stability and reactivity

### Reactivity

no data available

### Chemical stability

no data available

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

no data available

### Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity



no data available

### **Carcinogenicity**

no data available

### **Reproductive toxicity**

no data available

### **STOT-single exposure**

no data available

### **STOT-repeated exposure**

no data available

### **Aspiration hazard**

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

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## **SECTION 12: Ecological information**

### **Toxicity**

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

### **Persistence and degradability**

no data available

### **Bioaccumulative potential**

no data available

### **Mobility in soil**

no data available

### **Other adverse effects**

no data available

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## **SECTION 13: Disposal considerations**

### **Disposal methods**

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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## **SECTION 14: Transport information**

**14.1UN Number**

ADR/RID: no data available

IMDG: no data available

IATA: no data available

**14.2UN Proper Shipping Name**

ADR/RID: no data available

IMDG: no data available

IATA: no data available

**14.3Transport hazard class(es)**

ADR/RID: no data available

IMDG: no data available

IATA: no data available

**14.4Packing group, if applicable**

ADR/RID: no data available

IMDG: no data available

IATA: no data available

**14.5Environmental hazards**

ADR/RID: Yes

IMDG: Yes

IATA: Yes

**14.6Special precautions for user**

no data available

**14.7Transport in bulk according to IMO instruments**

no data available

**SECTION 15: Regulatory information****Safety, health and environmental regulations specific for the product in question**

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European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.



**NINGBO FINECHEM IND. CO., LTD.**

<b>New Zealand Inventory of Chemicals (NZIoC)</b>	Listed.
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	Not Listed.
<b>Vietnam National Chemical Inventory</b>	Listed.
<b>Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)</b>	Not Listed.
<b>Korea Existing Chemicals List (KECL)</b>	Listed.

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## **SECTION 16: Other information**

None

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