



# MATERIAL SAFETY DATA SHEET

MSDS No.: FLNH0028

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## COMPANY DETAILS

Company: Anhui Fengle Agrochemical Co.,Ltd.

Address: Hefei Circular Economy Demonstration Park, Feidong County, Hefei, Anhui, China

Telephone/Fax: 86-551-65360940

Website Address: <http://www.fengle-agrochem.com>

### 1.PRODUCT AND COMPANY IDENTIFICATION

Commercial product name : Carboxin 170g/l + Thiram 170 g/l FS  
Emergency telephone number and fax (of the supplier): 86-551-5360940

### 2.COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No.	Content (g/L)
Carboxin (technical grade)	5234-68-4	170
Thiram (technical grade)	137-26-8	170

### 3.HAZARD IDENTIFICATION

This product is classified as hazardous according to the National Occupational Health and Safety Commission.

Eye: Contact with eyes may cause irritation.

Skin : Contact with skins may cause irritation. Acute dermal LD<sub>50</sub> (rabbits) is > 4000mg/kg.

Inhalation : Individuals with respiratory problems should avoid inhalation exposure. Acute inhalation LC<sub>50</sub> (rat, 4 hour) is > 0.83mg/L, LC<sub>50</sub>(rat, 1hour) is > 20mg/L (Carboxin only), LC<sub>50</sub>(rat, 4hour) is 4.42mg/L (Thiram only).

Emergency overview: If poisoning is suspected, immediately contact the poison information center, doctor or nearest hospital. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

### 4.FIRST-AID MEASURES

Skin contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse.

Eye contact: Hold eye(s) open and flush with water for 15minutes. Seek medical advice.

Inhalation: Remove to fresh air. If breathing difficulties occur, seek medical advice.

Swallowed: If patient is fully conscious, administer large quantities of water. Do not give alcohol before reuse.

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Advice to physician: Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Flammability : Not flammable under conditions of use.

Fire hazard : Not flammable. Although in case of fire, protect against inhalation of combustion products. On combustion, there may be production of phosgene, hydrogen chloride and oxides of nitrogen.

Exposure hazard: Sufficient ventilation to minimize vapour exposure. Ensure ventilation is adequate to maintain air concentrations below exposure standards listed above. Keep containers closed when not in use.

Extinguishing media : Water spray or dry chemical. Contain runoff.

## 6. ACCIDENTAL RELEASE MEASURES

Personal protection: Avoid all personal contact. When using, do not eat, drink or smoke. Wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and face shield or goggles. In the absence of adequate ventilation, use a respirator fitted with an agricultural chemical cartridge(s). If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking, smoking or using the toilet, wash hands, arms and face thoroughly with soap and water. Launder clothing before storing or reusing.

Environmental precautions: Do not allow to enter drains or water courses. When the product contaminates public waters, inform appropriate authorities in accordance with local regulations.

## 7. HANDLING AND STORAGE

Handling: Do not drop the containers. Keep tightly closed.

Storage : Store in dry, cool and well ventilated and secured place under lock and key. Do not store feed stuff and animals feed in the same storage. Keep the containers in properly laid stocks with sufficient passage for free movements. Do not store indirect sunlight. Keep containers closed when not in use.

Other precaution : Keep containers tightly closed. Empty containers retain product residues and are hazardous. Follow all MSDS precautions in handling empty containers.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection equipment: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respiratory: Approved respirator.

Eyes and face protection: Safety goggles & face shield.

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact



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with this substance.

Body protection : Wear long pant, long sleeve shirt, apron and boots, hat.

Industrial hygiene : Safety shower and eye wash should be provided at work place. Do not eat, drink or smoke while working. Wash hands before meals and after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red-purple liquid suspension with faint odor.
Specific gravity:	1.15
Boiling point:	104.5°C
Vapor pressure :	14mmHg (20°C)
Solubility :	Dispersible in water.
Volatility:	57% (at 70°F)

## 10. STABILITY AND REACTIVITY

Stability :	Light stable, will thicken irreversibly with heat.
Incompatibility:	Strong acids and alkalis.

## 11. TOXICOLOGICAL INFORMATION

Oral : Acute oral LD<sub>50</sub> for rats is 4500mg/kg.

Skin: Contact with skin may cause irritation.

Eye: Contact with eyes may cause irritation.

Inhalation: Individuals with respiratory problems should avoid inhalation exposure.

LC<sub>50</sub>(rat, 4hours) > 0.83mg/L.

LC<sub>50</sub>(rat, 1hours) > 20mg/L (carboxin only)

LC<sub>50</sub>(rat, 4hours) is 4.42mg/L (thiram only)

Chronic:

General : Due to the presence of thiram, exposure can produce an adverse reaction when alcohol is consumed. Overexposure may produce kidney damage. Individuals with kidney problems should avoid exposure to this material. Thiram may also cause damage to the nervous system, blood & liver.

Skin: Carboxin has a low dermal toxicity but due to the presence of thiram, repeated minimal contact to the product may cause sensitization and dermatitis.

Toxicology: Studies in animals have shown that repeated doses of carboxin do not produce carcinogenic or teratogenic effects. Studies in experimental animals have shown that repeated doses of thiram do not produce carcinogenic effects whilst high, maternotoxic doses of thiram produce a few teratogenic effects.

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## 12.ECOLOGICAL INFORMATION

Birds:	Not toxic to birds. Acute oral LD50 Redwing Blackbird > 100mg/kg (Thiram technical)
Fish :	Highly toxic to fish due to presence of thiram. LC <sub>50</sub> Salmo (trout) 0.13mg/L (Thiram technical)
Bees:	Not toxic to bees.

## 13.DISPOSAL CONSIDERATIONS

Pesticide disposal: Preferred method of disposal is by incineration. End users must dispose of any unused product as per the label recommendations and in accordance with all applicable laws and regulations. Check governmental regulations and local authorities for approved disposal of this material.

Spills: Absorb onto inert material. Transfer into secure containers for proper disposal. Use personal protective equipment as outlined above. Do not contaminate watercourses or drains with the product or containers. Do not reuse the container for purpose. If there is a contamination of crops or waterways, advise emergency services or State Department of Agriculture.

Container disposal:

Disposal after intended use: Triple, or preferably pressure, rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If recycling, break crush or puncture and bury empty containers in a local authority landfill. If landfill is not available, bury containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and roots. Empty containers and product should not be burnt.

Disposal after accident or spill: Dispose of sealed containers at an approved local waste disposal site.

## 14.TRANSPORT INFORMATION (CODES AND CLASSIFICATIONS)

UN No.:	3082 Marine Pollute
Packaging group :	III
Dangerous good class:	9 - Miscellaneous
CAS No.:	5234-68-4
Toxicity class:	WHO (a.i.) III

## 15.REGULATORY INFORMATION

Safety phrases: Keep out of reach children. Wear suitable protective clothing, gloves and eye/ face protection. In case of accident or if you feel unwell,

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seek medical advice immediately (show the label where possible). Avoid release to the environment.

Indication of danger: Harmful.

## 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 presented in good faith and believed to be correct. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

安徽丰乐农化有限公司  
Anhui Fengle Agrochemical Co., Ltd.

Anhui Fengle Agrochemical Co., Ltd

2020/12/21

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