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288 Mundt Street  
Waltloo  
Pretoria  
Republic of South Africa

## MSDS – Material Safety Data Sheet

Last Revised: August 2009  
MSDS Nr: ACAS27

### AG-TIN 480 SC

#### 1. IDENTIFICATION OF THE SUBSTANCE

**Product Identification:** White liquid

**CAS No.:** 76-87-9

**Supplier:** Ag-Chem Africa (Pty) Ltd.  
288 Mundt Street  
Waltloo  
012 – 803 0145

**Emergency number:** 012 – 803 0145

**24 Hr Emergency number:**

Red Cross Poison Information Centre: 021 – 689 5227

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS No.	Average % by Volume
Fentin hydroxide	76-87-9	48.0
Inerts		52.0

### 3. HAZARDS IDENTIFICATION

#### *Emergency Overview*

**Caution! Causes severe eye irritation. Poisonous if swallowed or inhaled. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.**

#### POTENTIAL HEALTH EFFECTS

##### ***Inhalation:***

May cause irritation of the nose, throat and lungs resulting in difficulty in breathing, shortness of breath and coughing. Avoid breathing spray mist.

##### ***Ingestion:***

May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

##### ***Skin contact:***

Causes skin irritation. Exposure can result in reddening and swelling.

##### ***Eye contact:***

Causes severe eye irritation with tearing, pain or blurred vision. Do not get in eyes.

##### ***Potential Environmental Effect:***

Toxic to fish.

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### 4. FIRST AID MEASURES

##### ***Eye Contact:***

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Check for and remove contact lenses after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

##### ***Skin Contact:***

Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 - 20 minutes. Call a physician or poison control center immediately.

##### ***Ingestion:***

Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. 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. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Do not leave victim unattended.

##### ***Inhalation:***

Move person to fresh air. If person is not breathing call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. If breathing is difficult give oxygen. Call a physician or poison control center immediately.

##### ***Notes to Physician:***

There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. Probable mucosal damage may contraindicate the use of gastric lavage.

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## 5. FIRE FIGHTING MEASURES

**Flash point:**

> 200 °C

**Fire and Explosion Hazards:**

Dangerous gases are evolved in the event of a fire.

**Suitable Extinguishing Media:**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water spray.

**Fire Fighting Instructions:**

Keep out of smoke. Fight fire from upwind position. Cool closed containers/tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Fire-fighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Keep unauthorized people away. Isolate hazard area. Avoid contact with eyes and skin. Use personal protective equipment. Remove all sources of ignition.

**Methods for Cleaning Up:**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Neutralize the residue with a dilute solution of acetic acid.

**Environmental Precautions:**

Prevent entry into sewers, basements or confined areas.

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## 7. HANDLING AND STORAGE

**Handling:**

Do not eat, drink or smoke when handling this product. Do not breathe vapours or spray mist. Remove and wash contaminated clothing before re-use. Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or label.

**Storing:**

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Avoid temperature extremes during storage. Store in the original container.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Eye/Face Protection:**

Tight fitting safety goggles.

### **Skin Protection:**

Chemical resistant rubber gloves, long sleeved clothing and chemical resistant apron.

### **Respiratory Protection:**

When respirators are required, select a respirator with an organic vapour cartridge with prefilter approved for pesticides, or a NIOSH approved respirator with organic vapour cartridge or canister with any N, P, R or HE filter.

### **General Hygiene Measures:**

Do not eat, drink or smoke when handling this product. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Wear suitable personal protective equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White liquid
<b>Odour:</b>	Slight
<b>pH:</b>	7.5 (undiluted)
<b>Water solubility:</b>	Miscible with water
<b>Boiling point:</b>	> 100 °C

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## 10. STABILITY AND REACTIVITY

### **Conditions to avoid:**

Temperature extremes, sparks and incompatibles.

### **Incompatibility:**

Oxidizing agents and alkalis.

### **Hazardous decomposition products:**

Diphenyltin hydroxide, monophenyltin hydroxide and metallic tin (organic acid vapours).

### **Stability:**

Stable under recommended storage conditions.

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## 11. TOXICOLOGICAL INFORMATION

Acute Oral LD <sub>50</sub> :	250 mg/kg (male rat)
Acute Dermal LD <sub>50</sub> :	2 000 mg/kg (rabbit)
Acute Inhalation LC <sub>50</sub> :	0.062 mg/l/4 hr (male rat)
Skin Irritation:	Moderate to severe skin irritant
Eye Irritation:	Moderate to severe eye irritant
Sensitization:	Not a sensitizer

## 12. ECOLOGICAL INFORMATION

### **Environmental Precautions:**

*Information applicable to active ingredient:*

LC<sub>50</sub> (48 h): 0.071 mg/l Fathead minnow  
Toxic to fish

LC<sub>50</sub> (48 h): 10 µg/l Daphnia

Not toxic to bees.

### **Environmental Fate:**

Degraded to inorganic tin via di- and mono-phenyltin compounds in soil. DT<sub>50</sub> c. 20 d (lab).

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## 13. DISPOSAL CONSIDERATIONS

### **General Disposal Guidance:**

Pesticide wastes are toxic. Open dumping is prohibited. Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility.

### **Container Disposal**

Do not re-use empty containers. Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

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## 14. TRANSPORT INFORMATION

<b>Shipping Name:</b>	Organotin pesticides, liquid, toxic (fentin hydroxide)
<b>Hazard Class:</b>	6.1
<b>UN No.:</b>	UN 3020
<b>Packaging Group:</b>	PG I
<b>Marine Pollutant:</b>	Yes – when shipped in bulk

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## 15. REGULATORY INFORMATION

<b>EC Classification:</b>	Toxic
<b>Risk – Phrase:</b>	R20 – Harmful by inhalation R25 – Toxic if swallowed R36/38 – Irritating to eyes and skin. R51 – Toxic to aquatic organisms.
<b>Safety – Phrase:</b>	S1/2 – Keep locked up and out of reach of children. S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.
<b>National legislation:</b>	National Road Traffic Act, 1996 (Act 93 of 1996). Fire Brigade Service Act, 1987 (Act 99 of 1987). Occupational Health and Safety Act, 1993 (Act 85 of 1993).

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## 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. 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.

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