



# SINON USA INC.

1080 Carol Lane Suite 264, Lafayette, CA94549 U.S.A.  
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## MATERIAL SAFETY DATA SHEET

### Corrida 90 WSP Insecticide

Sinon Corporation MSDS Data Bank No. AIF10-A90SP04

Issue Date: Apr. 24, 2013

Revised Date: Dec. 02, 2013

According to European Commission Directive 2001/58/EC, 2001/60/EC, 1999/45/EC, 67/548/EEC, 1907/2006/EC & 1272/2008/EC

### 1. IDENTIFICATION OF PRODUCT AND MANUFACTURER

#### 1.1 Identification:

**Product name** : Corrida 90 WSP Insecticide  
**Chemical name** : S-Methyl N-(methylcarbamoyloxy)  
-thioacetimidate  
**Empirical formula** : C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>S  
**EPA signal word** : Danger-poison  
EPA registration No. 82557-3  
**Chemical class** : Insecticide, acaricide

#### 1.2 Company:

**SINON USA, Inc**  
1080 Carol Lane, Suite 264, Lafayette, CA94549  
Tel: 1-925-2991418

#### Location of plant:

**SINON Corporation**  
101, Nan Rong Road, Ta-Tu District, Taichung, Taiwan, R.O.C.  
Tel: 886-4-26933841 Fax: 886-4-26933713

#### 1.3 Emergency Telephone:

Call CHEMTREC Day or Night: 1-800-424-9300;  
International: 1-703-527-3887

### 2. HAZARDS IDENTIFICATION

#### 2.1 Emergency Overview

DANGER! POISON! FATAL IF SWALLOWED. MAY BE FATAL IF INHALED OR GETS IN EYES. DO NOT BREATHE DUST OR SPRAY MIST.

#### 2.2 Potential Health Effects

Based on animal and human data, overexposure may produce reversible cholinesterase inhibition.

Based on animal data, eye contact with Methomyl 90 WSP may cause eye irritation with discomfort, tearing, or blurring of vision. Eye contact may result in systemic toxicity.

Skin, eye, inhalation or ingestion exposure to Methomyl may cause acute cholinesterase depression (characterized by nonspecific discomfort, such as nausea, weakness, cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision, muscle twitching, and confusion) and hematologic effects. Higher exposures may lead to loss of consciousness; or convulsions and severe respiratory depression.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Contents
Methomyl	16752-77-5	90% min.
Inert ingredients	--	10% max.

### 4. FIRST AID MEASURE

#### 4.1 First Aid:

This product is an N-Methyl Carbamate Insecticide.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do

not induce vomiting or give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then, continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

#### ATROPINE IS AN ANTIDOTE-SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONINGS.

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may call 1-800-441-3637 for emergency medical treatment information.

#### 4.2 Note to Physicians

Probable mucosal damage may contraindicate the use of gastric lavage.

POISONING SYMPTOMS-Methyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section on the product label and seek medical attention at once.

TREATMENT-Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers.

Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to this product alone. However for exposure to combinations of this product and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

For medical emergencies involving this product, call toll free.



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## 5. FIRE FIGHTING MEASURE

### 5.1. Extinguishing Media:

Water Spray, Water Fog, Dry Chemical, CO<sub>2</sub>.

### 5.2. Fire Fighting Instructions:

Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Shut off source of fuel, if possible and without risk. Use water spray. Cool tank/container with water spray. Fight fire from maximum distance, use extreme caution as heat may decompose material and rupture containers.

If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

### 5.3. Hazardous Heating Decomposed Products:

Fire or intense heat may cause violent rupture of packages. Heating can release vapors which can be ignited. Hazardous gases produced in fire under conditions that produce incomplete combustion may consist of SO<sub>2</sub>, NO<sub>2</sub>, CO<sub>2</sub>, HCN, CH<sub>3</sub>NCO, CO, CS<sub>2</sub>. Complete combustion greatly reduces the amounts of CS<sub>2</sub>, CO, HCN, and CH<sub>3</sub>NCO generated.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing.

### 6.2. Environmental Precautions:

The product has acute toxicity hazard. Do not contaminate water, food, or feed by application.

### 6.3. Methods for Cleaning Up:

Contain spill. Shovel or sweep up powder. Use sawdust, sand, oil dry or other absorbent material as an aid to removing remaining traces of spilled material. Do not allow the material to enter sewers, waterways or low areas.

If product enters crevices and can not be removed, treat with a sodium hydroxide solution and allow standing 4 hours.

## 7. HANDLING AND STORAGE

### 7.1. Handling:

Avoid all contact with the skin, eyes, nose and mouth.

When opening containers, transferring product, filling spray tanks, etc., wear full protective clothing including long sleeve cotton overalls, PVC or neoprene gloves and apron, rubber boots, goggles and a mask or respirator suitable for protection against toxic insecticides.

### 7.2. Storage:

Keep away from heat, sparks, and open flame.

Do not subject liquid to temperatures < 0°C. Store in original container only. Discarded product is a hazardous waste under RCRA regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Exposure Limits:

PEL (OSHA): None Established.

TLV (ACGIH): 2.5 mg/m<sup>3</sup> TWA

AEL\* (DuPont): None Established

\*AEL is Dupont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits shall take precedence.

## 8.2. Occupational Exposure Controls:

**Respiratory protection** : Local exhaust or breathing protection.

**Ingestion protection** : Do not eat, drink, or smoke during work. Wash hands before eating.

**Eye protection** : Safety spectacles or eye protection in combination with breathing protection.

**Skin protection** : Protective gloves. Protective clothing.

## 8.3. Environmental Exposure Controls:

Use only with adequate ventilation. Keep container tightly closed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Appearance** : White powder

**9.2. Odor** : Moderate characteristic odor

**9.3. Density** : Bulk density 0.585g/ml at 20 °C

**9.4. Solubility** : Soluble in water

**9.5. pH** : Approx. 7.0(1% in water)

**9.6. Log P<sub>ow</sub>** : 0.12 (pH 4); 0.15 (pH 7 & 9) at 25 °C (Tech.)

**9.7. Flammability** : Non-flammable

**9.8. Explosive Properties** : Non-explosive

**9.9. Oxidizing Properties** : Non-oxidizing

## 10. STABILITY AND REACTIVITY

### 10.1. Chemical Stability:

Stable at normal temperatures and storage conditions

### 10.2. Incompatibility with Other Materials:

Incompatible with strong bases

### 10.3. Decomposition:

Thermal decomposition and combustion will produce hazardous gases. These may include sulfur oxides, methyl isocyanate and hydrogen cyanide.

### 10.4. Polymerization:

Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Acute Toxicity:

**Acute oral** : LD<sub>50</sub> 32 mg/kg in rats.

**Acute dermal** : LD<sub>50</sub> >2000mg/kg for rats

**Acute inhalation** : LC<sub>50</sub> 0.258 mg/L in rats(4h)

**Eye irritation** : Slight irritation (rabbit)

**Skin irritation** : Non-irritation (rabbit)

**Skin sensitization** : Non-sensitive to skin (guinea pig)

### 11.2. Chronic Toxicity:

Prolonged or repeated exposure to methomyl may cause symptoms similar to the pesticide's acute effects. Repeated exposure to small amounts of methomyl may cause an unsuspected inhibition of cholinesterase, resulting in flu-like symptoms, such as weakness, lack of appetite, and muscle aches. Cholinesterase-inhibition may persist for two to six weeks. This condition is reversible if exposure is discontinued. Since cholinesterase is increasingly inhibited with each exposure, severe cholinesterase-inhibition symptoms may be produced in a person who has had previous methomyl exposure, while a person without previous exposure may not experience any symptoms at all.

Based on a 5 mg/kg NOEL in a two-year feeding study with dogs, and utilizing a 100 fold safety margin, the EPA has established an



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ADI (Acceptable Daily Intake) for methomyl of 0.025 mg/kg of body weight/day.

### 11.3. Mutagenic Toxicity:

In all of several assays (including Ames test, a reverse mutation assay, a recessive lethal assay, three DNA damage studies, an unscheduled DNA synthesis assay, and in vivo and in vitro cytogenetic assays), methomyl was not mutagenic. Methomyl showed no transforming activity in a host mediated hamster cell culture. There is no evidence that methomyl is a mutagen.

## 12. ECOLOGICAL INFORMATION

### 12.1. Ecotoxicological Information

#### AQUATIC TOXICITY:

96hour LC50- Bluegill sunfish: 0.72mg/L

MATC, fathead minnows: 104ug/L

48hour LC50-Daphnia magna: 0.0076-0.0317 ppm

#### AVIAN TOXICITY:

Acute Oral LD<sub>50</sub>- Bobwhite Quail: 24.2mg/kg

Acute Oral LD<sub>50</sub>-Mallard Duck: 15.9mg/kg

Acute Dietary LC<sub>50</sub>-Bobwhite Quail: 1000ppm

Acute Dietary LC<sub>50</sub>-Mallard Duck: 2883ppm

Oral LD<sub>50</sub>-Pheasant: 15.4mg/kg

Dietary LC<sub>50</sub>-Pheasant: 1975ppm

## 13. DISPOSAL CONSIDERATIONS

**13.1. Waste Disposal:** Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

**13.2. Disposal:** Do not contaminate water, food or feed by storage. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**13.3. Container Disposal:** Completely empty bag into application equipment. Then dispose of empty package in a sanitary landfill or by incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

## 14. TRANSPORT INFORMATION

### 14.1. Maritime Transport IMDG:

**Proper shipping name :** Carbamate Pesticide, Solid, Toxic

**UN number :** 2757

**Class :** 6.1

**Packing group :** II

**Marine pollutant :** Yes

### 14.2. Air Transport (IATA)-International:

**Proper shipping name :** Carbamate Pesticide, Solid, Toxic

**UN number :** 2757

**Class :** 6.1

**Packing group :** II

## 15. REGULATORY INFORMATION

### EC Number (EINECS):

240-815-0

## 16. OTHER INFORMATION

### NFPA, NPCA-HMIS

NFPA Rating	
Health	: 2
Flammability	: 1
Reactivity	: 1

### NPCA-HMIS Rating

Health	: 3
Flammability	: 1
Reactivity	: 1

Personal Protection rating to be supplied by user depending on use conditions.

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