



# SINON USA INC.

1080 Carol Lane Suite 264, Lafayette, CA94549 U.S.A.  
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## MATERIAL SAFETY DATA SHEET Corrida 29 SL Insecticide

Sinon Corporation MSDS Data Bank No. AIF10-29SL04

Issue Date: Apr. 24, 2013

Revised Date: Dec. 02, 2013

According to SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

### 1. IDENTIFICATION OF PRODUCT AND MANUFACTURER

#### 1.1. Identification:

Product name : Corrida 29 SL Insecticide  
Common name : Methomyl  
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.: 82557-2  
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

#### Emergency Overview

##### DANGER! POISON!

Fatal if swallowed. CONTAINS METHANOL! MAY CAUSE BLINDNESS. CORROSIVE – CAUSES IRREVERSIBLE EYE DAMAGE. Do not get in eyes or on clothing. Wear goggles, face shield or safety glasses. Harmful if absorbed through the skin or inhaled. Avoid breathing vapours or mist. Avoid contact with skin and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. This product is toxic to fish. This product is toxic to: Aquatic invertebrates Mammals This product is toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

#### Warning symptoms:

Poisoning produces effects associated with anticholinesterase activity which may include: Weakness, Blurred vision, Nausea, Headache, Abdominal pain, discomfort in the chest, constriction of pupils, slow pulse, sweating, muscle twitching

#### Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin: May cause: Irritation with discomfort or pain, redness or rash, itching or swelling.

Eyes: May cause: Irritation with discomfort, pain, redness, or visual impairment. Systemic toxicity associated with acetyl cholinesterase depression including pupillary constriction, tremors, salivation, muscle weakness and incoordination., Prolonged contact may cause:, Corrosion, Ulceration.

#### Inhalation

Methomyl: May cause acute acetyl cholinesterase depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Nausea, Abdominal pain, Abnormal tearing, Abnormal salivation, constriction of pupils, Blurred vision, muscle twitching, Convulsions, Respiratory effects.

Cyclohexanone: Irritation of mucous membranes Decrease in body temperature (hypothermia), narcosis.

Methanol: Toxic by inhalation. Causes damage to the kidneys/ liver/ eyes/ brain/ respiratory system/central nervous system if inhaled. Impairment of vision, Blindness.

#### Ingestion

Methomyl: May cause acute acetyl cholinesterase depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness., Nausea, Abdominal pain, Abnormal tearing, Abnormal salivation, constriction of pupils, Blurred vision, muscle twitching, Convulsions, Respiratory effects.

Cyclohexanone: Effects due to ingestion may include: narcosis

Methanol: Toxic if swallowed.

Causes damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system if swallowed. Impairment of vision, Blindness.

#### Repeated exposure

Cyclohexanone: Respiratory irritation Conjunctivitis (inflammation of the eyelids, redness, soreness, swelling) Liver damage Kidney damage

#### Target Organs

Methomyl: Central nervous system

Cyclohexanone: Respiratory Tract Central nervous system Liver Kidney.

Methanol: Central nervous system Eyes

#### Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Percentage	R Phrases
Methomyl	16752-77-5	29%	R 28-50/53
Cyclohexanone	108-94-1	29-34%	
Methanol	67-56-1	≤ 10%	



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## 4. FIRST AID MEASURE

### 4.1. First Aid:

**Ingestion** : 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.

**Inhalation** : 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.

**Eyes contact** : 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.

**Skin contact** : 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.

### 4.2. Advices to Medical Treatment:

Seek medical attention at once in all cases of suspected poisonings. If warning symptoms appear (see WARNING SYMPTOMS), get medical attention. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Warning Symptoms** - Methylol 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, and muscle tremors.

### 4.3. Antidote:

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

## 5. FIRE FIGHTING MEASURE

### 5.1. Flammable Properties

Flash Point: 38.4°C, closed cup

Flammable limits in Air, % by Volume

LEL: 5 vol%

UEL: 75 vol%

### 5.2. Fire and Explosion Hazards:

Hazardous gases produced in a fire under conditions that produce incomplete combustion may consist of SO<sub>x</sub>, NO<sub>x</sub>, CO<sub>x</sub>, CH<sub>3</sub>NCO, HCN, CS<sub>2</sub>. When combusted at higher temperatures with sufficient oxygen, the following are greatly reduced: CS<sub>2</sub>, CO, HCN, and CH<sub>3</sub>NCO.

### 5.3. Extinguishing Media

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

### 5.4. 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.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

### 6.2. Initial Containment

Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas.

### 6.3. Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

### 6.4. Accidental Release Measures

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

NOTE: Sodium hydroxide is caustic and causes burns. Do not get in eyes, on skin or clothing.

## 7. HANDLING AND STORAGE

### 7.1. Handling (Personnel)

Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

**USERS SHOULD:** 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.

### 7.2. Storage

Do not subject to temperatures below 32°F. Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

### 8.2. Personal Protective Equipment

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for Category B on the EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Chemical-resistant gloves, such as barrier laminate or butyl rubber

Shoes plus socks

Protective eyewear

For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for



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pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

For exposures outdoors, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE prefilter.

Cleaners and repairers of application equipment must wear:

Long-sleeved shirt and long pants

Chemical resistant gloves

Chemical resistant footwear

Protective eyewear

Respirator as outlined above

Chemical resistant apron

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water.

Keep and wash PPE separately from other laundry.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

Coveralls

Chemical-resistant gloves, such as barrier laminate or butyl rubber

Shoes plus socks

Protective eyewear

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Yellowish Liquid
<b>Odor</b>	: Mild characteristic
<b>Density</b>	: 1.055g/ml(20°C)
<b>Solubility</b>	: Full soluble
<b>pH</b>	: 4.5 (1% water at 25°C)
<b>Flash point</b>	: 38.4°C

## 10. STABILITY AND REACTIVITY

### 10.1. Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

### 10.2. Decomposition

Decomposes with heat.

Hazardous gases/vapors produced are toxic and/or noxious.

They may include sulfur oxides, methylisocyanate and HCN.

### 10.3. Polymerization

Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Animal Data

Inhalation 4 hour LC<sub>50</sub>: 1.1 mg/L in rats (Moderately toxic)

Oral LD<sub>50</sub>: 89 mg/kg in male rats; 49 mg/kg in female rats

(Highly to moderately toxic)

Skin absorption LD<sub>50</sub>: >2000 mg/kg in rats (Slightly to

Moderately toxic)

This product is a slight skin irritant and a moderate to severe eye irritant, but is not a skin sensitizer in animals.

### 11.2. Methomyl

Ocular exposure with Methomyl caused pupillary constriction, incoordination, tremors, convulsions, profuse salivation, lethargy, rales, and/or fasciculations were also observed in rabbits approximately 1 and 20 minutes after treatment with 10 mg of methomyl. Pupillary constriction was still evident after 1 hour. These clinical signs are typical of anticholinesterase activity.

Tests in animals demonstrate no carcinogenic, developmental, or reproductive toxicity. (One test in mice reports abnormal sperm morphology).

Methomyl does not produce genetic damage in animals or in bacterial and mammalian cell cultures.

## 12. ECOLOGICAL INFORMATION

Methomyl is extremely toxic to aquatic organisms:

96 hour LC<sub>50</sub>, bluegill sunfish: 0.72 ppm

96 hour LC<sub>50</sub>, rainbow trout: 3.4 ppm

48 hour EC<sub>50</sub>, Daphnia magna: 7.6 ppm

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste Disposal

This product is toxic to fish, birds and other wildlife.

Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

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.

Do not contaminate water, food, or feed by disposal.

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 us 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.

### 13.2. Container Disposal

For Metal Containers (non aerosol): Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by the State and local authorities.

For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or 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, Liquid, Toxic,  
Flammable (methomyl,  
Cyclohexanone)

UN number : 2991

Class : 6.1(3)



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Packing group : II

Marine pollutant : P

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

Proper shipping name : Carbamate Pesticide, Liquid, Toxic,  
Flammable (methomyl,  
Cyclohexanone)

UN number : 2991

Class : 6.1(3)

Packing group : II

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### 15. REGULATORY INFORMATION

SARA 313 Regulated Chemical(s): Methanol

Title III hazard classification:

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire: Yes

Reactivity/Physical hazard: No

Pressure: No

CERCLA Reportable Quantity: 345 lbs

Based on the percentage composition of this chemical in  
the product: Methomyl

SARA Reportable Quantity: 345 lbs

Based on the percentage composition of this chemical in  
the product: Methomyl

EPA Reg. No.: 352-384

In the United States this product is regulated by the US  
Environmental Protection Agency (EPA) under the  
Federal Insecticide, Fungicide and Rodenticide Act  
(FIFRA). It is a violation of Federal law to use this  
product in a manner inconsistent with its labeling. Read  
and follow all label directions. This product is excluded  
from listing requirements under EPA/TSCA.

California Prop. 65 Regulated Chemical(s):

Chemicals known to the State of California to cause cancer,  
birth defects or any other harm: none known

PA Right to Know Regulated Chemical(s): Substances on the

Pennsylvania Hazardous Substances List present at a  
concentration of 1% or more (0.01% for Special Hazardous  
Substances): Cyclohexanone , Methomyl , Methanol

NJ Right to Know Regulated Chemical(s): Substances on the

New Jersey Workplace Hazardous Substance List present  
at a concentration of 1% or more (0.1% for substances  
identified as carcinogens, mutagens or teratogens):  
Cyclohexanone , Methomyl , Methanol

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### 16. OTHER INFORMATION

NFPA Rating	NPCA-HMIS Rating
Health : 2	Health : 3
Flammability : 2	Flammability : 2
Reactivity : 0	Reactivity : 0

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which we believe to be reliable, it can not be guaranteed. In  
addition this information may be used in a manner beyond our  
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