



MATERIAL SAFETY DATA SHEET

Product: SUPRACIDE® 25-W

Formulator: Gowan Company
P.O. Box 5569
Yuma, Arizona 85366-5569
(520) 783-8844

Emergency Phone: (520) 783-3803
For 24-Hour Emergency Assistance (Spill, Leak, Fire, or Exposure), Call CHEMTREC®:

Inside the U.S.: (800) 424-9300
Outside the U.S.: (703) 527-3887
(800) 225-5635 ext. 283

For MEDICAL Emergency:

1. CHEMICAL IDENTIFICATION

Product: SUPRACIDE 25-W
EPA Signal Word: Warning
Active Ingredient (%): Methidathion (25%)
Chemical Name: O,O-dimethyl-S-[5-methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl-methyl]-dithiophosphate
Chemical Class: Organophosphate insecticide

EPA Registration No.: 10163-244
CAS No.: 950-37-8

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	OSHA – PEL	ACGIH – TLV	OTHER	NTP/IARC/OSHA CARCINOGEN
Diatomaceous Earth	(80 mg/m ³)/(%SiO ₂)	10 mg/m ³ (inhalable); 3 mg/m ³ (respirable)	Not established	IARC, 2A
Surfactant	Not established	Not established	15 mg/m ³ (total dust)*	No
Methidathion (25%)	Not established	Not established	Not established	No

* recommended by manufacturer

3. HAZARDS IDENTIFICATION

Physical Properties

Appearance: Light salmon powder
Odor: Organophosphate

Symptoms of Acute Exposure

Symptoms of organophosphate poisoning include headache, dizziness, blurred vision, weakness, nausea, diarrhea, cramps, discomfort in the chest, nervousness, sweating, miosis (pinpoint pupils), tearing, salivation, uncontrollable muscle twitches, convulsions, coma, and loss of reflexes and sphincter control.

Medical Condition Likely to be Aggravated by Exposure

Exposure to cholinesterase inhibitors should be restricted in persons with hemolytic anemias or pre-existing depression of cholinesterase. Also individuals with pre-existing respiratory disorders should use extra care in handling this product.

Hazardous Decomposition Products

None known

3. HAZARDS IDENTIFICATION (continued)

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products include, but are not limited to, the oxygen analogue of the active ingredient of this product.

1. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with finger, or, if available by administering syrup of ipecac. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Eye Contact: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

Skin Contact: Wash with plenty of soap and water. Get medical attention.

Note to Physician

This product is an organophosphate (cholinesterase-inhibiting) insecticide. If swallowed, induce emesis or lavage.

!! IN ALL CASES OF SUSPECTED POISONING, GET MEDICAL ATTENTION IMMEDIATELY !!

For emergency **MEDICAL** response and hazard communication **ONLY**, call:

Hazard Information Services at (800) 228-5635 ext. 283.

5. FIRE FIGHTING MEASURES

Flashpoint (test method): Not applicable

Flammable Limits(% in air): Not applicable

Autoignition Temperature: Not available

Flammability: Not flammable

Appropriate Extinguishing Media

Use dry chemical, foam, or CO₂ extinguishing media.

Fire Fighting Guidance

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products include, but are not limited to, the oxygen analogue of the active ingredient of this product.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spills or Leaks

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and NIOSH-approved dual cartridge dust with high efficiency pre-filters or self-contained breathing apparatus (SCBA). For small spills, sweep up, keeping dust to a minimum, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material. Sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow washwaters to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS.

Ingestion:	Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.
Eye Contact:	To avoid eye contact, wear safety glasses with side shields or chemical goggles.
Skin Contact:	To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
Inhalation:	To avoid breathing dust, wear a NIOSH-approved dual cartridge dust with high efficiency prefilters or supplied-air respirator.
Applicators/ Handlers:	Please refer to the product label for personal protective clothing/equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light salmon powder
Odor:	Organophosphate
Melting Point:	40° C (technical)
Boiling Point:	Not applicable
Specific Gravity/ Density:	0.29 g/cc
pH:	6-7 (1% solution in H ₂ O @ 25° C)

Solubility in H₂O

Methidathion	200.0 mg/L @ 25° C
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Vapor Pressure

Methidathion	1.90E10 ⁻⁰¹ mPa @ 20° C
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10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None known
Hazardous Decomposition Products:	None known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion:	Highly toxic	
	Oral LD ₅₀ (rat):	52.8 mg/kg body weight
Dermal:	Slightly toxic	
	Dermal LD ₅₀ (rabbit):	>2,020 mg/kg body weight
Inhalation:	Moderately toxic	
	Inhalation LC ₅₀ (rabbit):	>0.125 mg/l air – 4 hours
Eye Contact:	Slightly irritating (rabbit)	
Skin Contact:	Non-irritating (rabbit)	
Skin Sensitization:	Not a sensitizer (guinea pig)	

11. TOXICOLOGICAL INFORMATION (continued)

Mutagenic Potential

Methidathion: None observed

Reproductive Hazard Potential

Methidathion: Reproductive: Impaired mating performance, decreased pup weight and viability at high doses (rats)
Teratogenic: None observed

Chronic/Subchronic Toxicity Studies

Methidathion: Cholinesterase inhibition: liver toxicity

Carcinogenic Potential

Methidathion: Liver tumors at high doses (mice)

Other Toxicity Information

Not available

Toxicity of Other Components

Diatomaceous

Earth: This product contains crystalline silica which is considered a probable human carcinogen. Chronic inhalation exposure is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.

Surfactant: Exposure can result in eye, skin and respiratory tract irritation.

Target Organs

Active Ingredients

Methidathion: Central nervous system and liver

Inert Ingredients

Diatomaceous

earth: Respiratory tract

Surfactant: Eyes, skin and respiratory tract

12. ECOLOGICAL INFORMATION

Summary of Effects

Methidathion: Highly toxic to fish and wildlife

Eco-Acute Toxicity

Methidathion: Oral LD₅₀ (Mallard) 28 mg/kg
8-day Dietary LC₅₀ (Bobwhite) 224 ppm
8-day Dietary LC₅₀ (Mallard) 543 ppm

Eco-Chronic Toxicity

Methidathion: Life cycle MATC
(Invertebrate, *Daphnia magna*) >0.00072 mg/L and <0.0013 mg/L
Reproductive NOEC (Mallard) 30 ppm
Reproductive NOEC (Bobwhite) 30 ppm

Environmental Fate

Methidathion: Not available

13. DISPOSAL CONSIDERATION

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not applicable

Listed Waste: Not applicable

14. TRANSPORT INFORMATION

DOT Classification

Organophosphorous Pesticide, Solid, Toxic, (methidathion) 6.1, UN2783, PGII, NAERG# 152
(Add "Marine Pollutant" if shipped by water)

International Maritime Organization

Organophosphorous Pesticide, Solid, Toxic, (contains methidathion), 6.1, UN2783, PGII, Marine Pollutant, EmS 6.1-04, MFAG 505, NAERG# 152

International Civil Aviation Organization

Organophosphorous Pesticide, Solid, Toxic, (contains methidathion), 6.1, UN2783, PGII, Marine Pollutant, NAERG # 152

15. REGULATORY INFORMATION

SARA Title III Classification

Section 302/304:	Not applicable
Section 311/312:	Acute health hazard Chronic health hazard
Section 313 chemical(s):	Not applicable

Proposition 65

Not applicable

CERCLA Reportable Quantity (RQ)

None

RCRA Classification

Not applicable

TSCA Status

Exempt from TSCA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 3
Flammability: 0
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Notice: The information and recommendations contained herein are provided in good faith and are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein.

Prepared By:

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(520) 783-8844

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