

Material Safety Data Sheet



196 SCR 450
P.O. Box 2546
Breckenridge, CO 80424

Technical Information: 1-800-530-8707
CHEMTREC Transportation Emergency Phone: 1-800-424-9300

Date Issued: 9/1/92

IDENTIFICATION

Trade Name: **ROO-PRU™ WFA**

CAS Number: NA

UN Number: NA

Chemical Name: NA

Chemical Family: NA

Confidential trade secret. No known hazardous ingredients.

Common Name: NA

SPECIAL REGULATORY HAZARDS

Ingredient
NL

CAS No.
NL

Exposure Limit
NL

OSHA (1910.1200)
NL

Hazard assessment based on available data.
Transportation: NL

PHYSICAL DATA

Appearance and Odor: Clear, light yellow solution; mild characteristics chemical; very slight ammonia odor

Solubility: Completely soluble in water

Specific Gravity: (H₂O = 1): 1.04

PH: 9.0 - 10.0

Vapor Pressure: @ 20° C: NA

Melting Point: NA

Vapor Density: (Air = 1): NA

Boiling Point: ND

Volatility: @ 70° F: Low

Other Data: Wt. per gallon: 8.6 lbs.

Viscosity: 300 cps typical

FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200°F (93°C) TGCC

Autoignition Temp: NA

Extinguishing Media: Water, carbon dioxide, foam

Flammable Limits: NA

Special Fire Fighting Procedures: Protect against inhalation of combustion products.

Unusual Hazards: None known.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: Concentrated acids

Decomposition Products: Carbon dioxide, carbon monoxide, sulfur oxides, ammonia vapor.

Hazardous Polymerization: Will not occur

NA = Not Applicable

NE = Not Established

ND = Not Determined

NL = Not Listed

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SPECIAL PROTECTION INFORMATION

Engineering Controls: NA

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Store away from sources of direct heat in a dry area. Keep containers closed when not in use. See package label for details. Two or more years shelf life is expected.

Spills: Use any absorbent clay granular to absorb the liquid spill. Reportable Quantity - Not considered EPA hazardous waste

Disposal: In accordance with any applicable local, state, or federal requirements as shown on label.

Environmental Information: NE

HEALTH RELATED DATA

Specific Hazard(s): No health hazards have been identified. Each of the materials used in this recipe are normally considered non-hazardous as used. The finished recipe is not expected to be any different than those of each of the ingredients.

Primary Route(s) of Entry: Inhalation, skin absorption.

First Aid Procedures: Eye Contact: May cause eye irritation unless washed from the eye immediately. Flush eyes with copious amounts of water and get medical attention immediately.

Skin Contact: Wash with soap and water. It is believed to be non-irritating. If a skin reaction occurs, consult a physician.

Ingestion: May cause gastrointestinal irritation or nausea. Get medical assistance if necessary. Do not induce vomiting.

Inhalation: Remove person to fresh air and give artificial respiration if necessary. If breathing difficulty persists, get medical assistance.

Toxicology Information: ND

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IDENTIFICATION

Trade Name: **ROO-PRU™ MS 32.7S** CAS Number: 137-42-8
Chemical Name: Sodium methyldithiocarbamate UN Number: NA
Inerts: 32.7%
Common Name: Metam Sodium Chemical Family: Carbamate
Inerts: 67.3%

SPECIAL REGULATORY HAZARDS

Hazard summary: (as defined by OSHA hazard comm. std., 29CFR 1910: 1200)
Physical Hazards: None
Health Hazards: Corrosive (skin) irritant, (eye, respiratory passages), harmful (oral)
Hazard assessment: based on available data.
Transportation: NL
Read the entire MSDS for a more thorough evaluation of the hazards.

PHYSICAL DATA

Appearance and Odor: Light yellow liquid; strong sulfur-like
Miscibility: Miscible with water
PH: 9.0 - 10.5
Boiling Point: NA 230° F, 110° C
Volatility: @ 70° F: Low
Specific Gravity (H₂O = 1): 1.16-1.18 @ 68° F (20° C)
Vapor Pressure: @ 25° C: 21
Viscosity: 4.7-5.0 CP

FIRE AND EXPLOSION HAZARD DATA

Flash Point: >200° F (94° C) TCC
Extinguishing Media: Water Spray, dry chemical or carbon dioxide
Special Fire Fighting Procedures: Products of combustion are irritating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure. As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area. Firefighters should wear full face, self-contained breathing apparatus and impervious protective clothing. Use standard firefighting techniques to extinguish fires involving this material - use water spray, dry chemicals or carbon dioxide. If not leaking, keep fire-exposed containers cool with a water spray to prevent rupture due to excess of heat. High pressure water hose may spread product from broken containers increasing contamination or fire hazard. Contaminated building, areas, and equipment must not be used until they are properly decontaminated.
Unusual Hazards: Not defined as flammable or combustible. However, the product may support combustion under fire conditions and decompose to give off toxic materials.

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REACTIVITY DATA

Stability: Stable under normal conditions. Prolonged exposure to air will result in gradual decomposition, to form methyl isothiocyanate (MITC), which is poisonous. In poorly ventilated areas or confined spaces, MITC may reach unsafe levels. Use of full face, air-supplied or gas mask-type respirators would be required under these conditions.

Incompatibility: Corrosive to brass, copper, zinc and aluminum. The product may soften or discolor iron. Steel and stainless steel are the preferred materials of construction for process equipment, storage and shipping containers. The product is not compatible with acidic solutions. If acidified, toxic hydrogen sulfide gas may form.

Decomposition Products: Methyl isothiocyanate

Polymerization: Will not occur.

SPECIAL PROTECTION INFORMATION

TLV® or suggested control value:

No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.

Ventilation: Use local exhaust if aerosol is generated.

Respiratory protection: If needed, use MSHA/NIOSH approved respirator for pesticides.

Protective clothing: Take all precautions to prevent skin contact. Use gloves, arm covers and apron determined to be impervious under the conditions of use. Additional protection, such as full body suit and boots, may be required depending on conditions.

Eye protection: Chemical tight goggles and full faceshield.

Other protective equipment: Eyewash station and safety shower in work area.

Special Precautions or other comments:

Prevent skin and eye contact. Avoid breathing vapors or aerosols. Do not store near feed, food, or within the reach of children. Store in a cool, dry, well-ventilated area away from flammable materials and sources of heat and flame. Exercise due caution to prevent damage to or leakage from the container.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Steps to be taken in case material is released or spilled:

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. A small spill can be handled routinely. Use adequate ventilation or wear an air-supplied respirator to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact. Use the following procedures:

1. Spread a suitable absorbent such as clay on the spill, and shovel into an open drum.
2. Generously cover the contaminated areas with common, household detergent (e.g. TIDE, registered trademark Proctor & Gamble Company). Using a stiff brush and small amounts of water, work the detergent into the remaining spilled material forming a slurry. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Be careful to completely avoid skin or eye contact. Do not splatter on oneself or bystanders.
3. Spread absorbents on the slurry liquid and shovel mixture into the open drum.
4. Repeat #2 and 3 if necessary.
5. If practical, flush the area with water to a sewer services by a wastewater treatment facility.
6. Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill plan. Otherwise, in case of emergency call, day or night, 800-424-9300, CHEMTREC.

Disposal method:

This material is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds. Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container disposal:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue and puncture or otherwise destroy empty container before disposal.

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IDENTIFICATION

Trade Name: **ROO-PRU™ DGB 85W**

CAS Number: 1194-65-6 (active)

UN Number: NA

Chemical Name:

Chemical Family: Benzonitrile

2,6-dichlorobenzonitrile

90%

inerts:

10%

Common Name: Dichlobenil

SPECIAL REGULATORY HAZARDS

Ingredient	CAS No.	Exposure Limit	OSHA (1910.1200)
Calcium silicate	1344-95-2	10 mg/m ³ (ACGIH)	Nuisance particulate

Hazard Assessment: Based on available data.

Transpiration: NL

PHYSICAL DATA

Appearance and Odor: White, powdery solid; aromatic odor

Solubility: Insoluble in water; soluble
in most organic solvents

Specific Gravity: (H₂O = 1): ND

Vapor Pressure: @ 20° C: NA

Melting Point: ND

Vapor Density: (Air = 1): NA

Boiling Point: NA

Volatility: @ 70° F: Low

Other Data: Bulk Density: 20-23 lbs./ft³

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 420°F (216°C) COC

Autoignition Temp: 980° F (527°C)

Extinguishing Media: Water spray, dry chemical

Flammable Limits: 0.1170 oz./ft.³

Special Fire Fighting Procedures: Protect against inhalation of combustion products.

Unusual Hazards: May form explosive dust-air mixtures.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: Strong alkalis.

Decomposition Products: Active ingredient may hydrolyze to 2,6-dichlorobenzamide in alkaline/alcoholic solutions.

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SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure. Protect closed dust handling systems against possible dust explosions. Avoid dust accumulations on building or equipment surfaces.

Personal Protection Equipment: Avoid all personal contact. Observe good personal hygiene. Impervious gloves, protective clothing and eye protection should be worn when handling. Launder clothing before reuse. In the absence of adequate ventilation, use NIOSH-certified pesticide cartridge respirator.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Store away from sources of direct heat in a dry area. Keep containers closed when not in use. See package label for details.

Spills: Sweep or vacuum up. Avoid creating dust. Shovel into secure containers for proper disposal. Use personal protective equipment as outlined above. Reportable Quantity - 100 lbs. (Dichlobenil)

Disposal: In accordance with any applicable local, state, or federal regulation regarding pesticidal waste.

Environmental Information: Tests on Bluegill, Rainbow Trout, and Large Mouth Bass demonstrate LC50 values between 15 and 30 ppm. Adult Quail LC50 = 1000 ppm. These data indicate that Dichlobenil is not toxic to these species.

HEALTH RELATED DATA

Specific Hazard(s): No health hazards have been identified.

Primary Route(s) of Entry: Inhalation, skin absorption.

First Aid Procedures: **Eye Contact:** Flush with water for 15 minutes.
Skin Contact: Wash thoroughly with soap and water.
Inhalation: Remove to fresh air.

Toxicology Information: DICHLOBENIL TECHNICAL

Oral Toxicity: LD50 (rats) - > 3.2 g/kg
Dermal Toxicity: LD50 (rabbits) - > 2 g/kg
Inhalation Toxicity: LD50 (rats) - > 5 mg/l
Irritation: skin (rabbits) - negative

Chronic: The feeding to rats of up to 100 ppm Dichlobenil for two years did not produce significant adverse effects and no evidence of carcinogenicity. A three-generation reproduction study at up to 100 ppm daily demonstrated a no observable effect level of 20 ppm. The feeding to dogs of 20, 50 or 350 ppm Dichlobenil for two years demonstrated a no observable effect level of 50 ppm.

Teratogenicity: The dosing of mice with 60 mg/kg Dichlobenil had no effect on number of pregnancies, fetal number or fetal death.

HEALTH RELATED DATA

General:

This description of toxicological properties is based on experimental results and experience with the material.

Specific Hazard(s) and Toxicological Information:

Ingestion:

The acute oral LD50 in rat is 1.294 g/kg in males and 1.428 g/kg in females. A single dose of this product is classified as "slightly toxic" by ingestion.

Eye Contact:

This material was mildly irritating in rabbit eye studies. A similar degree of irritation will probably occur after human eye contact.

Skin Contact:

This material was severely irritating in rabbit dermal irritation studies. A similar degree of irritation or burns may occur after human skin contact. Prolonged or repeated exposure may cause a hypersensitivity-type dermatitis.

Skin Absorption:

The acute dermal LD50 is 1.012 g/kg in rabbits. This material is classified as "slightly toxic" by skin absorption. A single dermal application of 794 mg/kg produced a mild to moderate decrease in physical activity with no mortality.

Inhalation:

The acute inhalation LC50 is greater than 4.7 mg/L in rats. Vapors and aerosols can irritate eyes, nose and respiratory passages.

Other effects of overexposure:

Male and female rats exposed by inhalation for 6 hours per day, 5 days per week for 65 exposure days to 6.5, 45 or 160 mg/m³ demonstrated a minimal treatment related irritation of the nasal epithelium and rhinitis. The no-observable-effect-level is 45 mg/m³.

Primary Route(s) of Entry: Eye contact, skin absorption

First Aid Procedures:

General: If a known exposure occurs or is suspected, immediately start the recommended procedures below. Simultaneously contact a Poison Center, a physician or the nearest hospital. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and follow the advice given.

Skin: Wash material off of the skin with soap and plenty of water. Get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

Eyes: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

Ingestion: Do not induce vomiting. Give 1 or 2 glasses of water to drink and refer person to medical personnel. (Never give anything by mouth to an unconscious person.) If vomiting does occur, give fluids again. Have a physician determine if the condition of the patient will permit induction of vomiting or evacuation of stomach.

Inhalation: Remove victim to fresh air. Consult medical personnel if a cough or other respiratory symptoms develop. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.

REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

This product is a pesticide and is exempt from TSCA regulation.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.