



SAFETY DATA SHEET

Quali-Pro 3-D Foam

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS is intended to provide important health and safety information for employers, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200). The product label provides information specifically for product use/application. Use, storage, and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage and disposal information is set forth on that label. It is a violation of federal law to use an EPA registered pesticide product in any manner inconsistent with its labeling.

SECTION 1: IDENTIFICATION

Product Name: Quali-Pro 3-D Foam
EPA Registration No.: 53883-503
Recommended Use: Herbicide; See product label for a complete list of uses and use sites.
Restrictions on Use: See product label for any restrictions on the use of this product.
Chemical Family: N/A - Mixture
Chemical Name of Active Ingredient(s): Dimethylamine Salt of 2,4-Dichloro-phenoxyacetic acid
Dimethylamine Salt of (+)-R-2-(2-methyl-4-chlorophenoxy) propionic acid
Dimethylamine Salt of Dicamba (3,6-dichloro-o-anisic acid)
Manufactured for: Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: [CHEMTREC 1-800-424-9300](tel:1-800-424-9300)

FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: [Safety Call 1-866-897-8050](tel:1-866-897-8050)

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Colorless liquid with no odor. Flammable aerosol.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Flammable aerosol

Category 2

OSHA Signal Word: WARNING



Hazard Statement(s): Flammable aerosol

Precautionary Statement(s):

Prevention: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Response: No statement required. See Section 4 for First Aid information.

Storage: Protect from sunlight.

Do not expose to temperatures exceeding 50°C/122°F.

Disposal: No statement required. See Section 13 for disposal information.

*Please see Section 15 for an explanation of the difference between this SDS and the product label.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Dimethylamine Salt of 2,4-Dichloro-phenoxyacetic acid	2008-39-1	0.18%
Dimethylamine Salt of (+)-R-2-(2-methyl-4-chlorophenoxy) propionic acid	66423-09-4	0.05%
Dimethylamine Salt of Dicamba (3,6-dichloro-o-anisic acid)	2300-66-5	0.02%

*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15 to 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 ON SKIN:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
IF INGESTED:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed: Mild eye irritation clearing within 48 hours.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable Extinguishing Media:	Water jet as it may spread fire.
Hazardous Combustion Products:	Thermal decomposition may produce toxic carbon, nitrogen and sulfur oxides.
Special Protective Equipment & Precautions:	Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).
Unusual Fire & Explosion Hazards:	Flammable aerosol. Contents under pressure. Exposure to temperatures above 130°F may cause bursting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection equipment.

Environmental Precautions: Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods for Containment: Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid for disposal.

Methods for Clean-up: Place recovered material in a separate container for disposal. After removal, flush contaminated area thoroughly with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental contact with product from skin, clothing and out of eyes.

Storage: See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals. DO NOT use or store near heat or open flame.

Storage Temperature (Min/Max): Exposure to temperatures above 130°F may cause bursting.

Product Incompatibilities: None known

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Dimethylamine	TWA: 10 ppm TWA: 18 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 18 mg/m ³	STEL: 15 ppm TWA: 5 ppm	IDLH: 500 ppm TWA: 10 ppm TWA: 18 mg/m ³
2,4-D Acid	TWA: 10 mg/m ³	TWA: 10 mg/m ³ (inhalable, skin)	

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

THE PERSONAL PROTECTIVE EQUIPMENT BELOW IS REQUIRED FOR PRODUCT APPLICATORS, END USERS, AND HANDLERS AND COMES FROM THE FIFRA APPROVED PESTICIDE LABEL:

Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves made of any waterproof material.

THE PERSONAL PROTECTIVE EQUIPMENT BELOW IS INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS:

- Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.
- Eye Protection:** Chemical goggles or safety glasses and full-face shield.
- Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.
- Other Protective Clothing:** Long-sleeved shirt, long pants and shoes plus socks.
- General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and 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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid	Upper/Lower Flammability Limits:	Not determined
Odor:	No odor	Vapor Pressure:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH (1% dispersion):	8.0 – 8.5	Density:	1.0003 (typical)
Melting /Freezing Point:	Not determined	Solubility (water):	Not determined
Boiling Point/Range:	Not determined	Partition Coefficient:	Not determined
Flash Point:	Not applicable	Auto-ignition Temperature:	Not determined
Evaporation Rate:	Not determined	Decomposition Temperature:	Not determined
Flammability:	Flame length 20.7 cm	Viscosity:	1 cP at 20°C 0.7 cP at 40°C.

*As an end-use mixture, many of the listed physical and chemical properties are not determined as they primarily apply to pure chemical substances.

SECTION 10: STABILITY AND REACTIVITY

- Reactivity:** No hazardous chemical reactions known.
- Chemical Stability:** Stable under normal storage and handling conditions.
- Possibility of Hazardous Reactions:** No potential for hazardous reactions known.
- Conditions to Avoid:** Sources of heat or flame
- Incompatible Materials:** None known
- Hazardous Decomposition Products:** Thermal decomposition may produce toxic carbon, nitrogen and sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye, Skin and Inhalation
Symptoms of Exposure: Mild eye irritation clearing within 48 hours.
Oral LD₅₀: >5,000 mg/kg (rat)
Dermal LD₅₀: >5,000 mg/kg (rat)
Inhalation LC₅₀: 2.1 mg/L (4-hr)(rat) (Highest tested dose and no mortalities observed)
Eye Irritation/Damage: Minimally irritating (rabbit)
Skin Corrosion/Irritation: Slightly irritating (rabbit)
Skin Sensitization: Non-sensitizer (guinea pig)

Chronic/Subchronic Toxicity: Repeated overexposure to phenoxy herbicides may cause effects to liver, kidneys, and gross motor function. Rare cases of peripheral nerve damage have been reported, but extensive animal studies have failed to substantiate these observations, even at high doses for prolonged periods. Repeated overexposure to dicamba may cause liver changes or a decrease in body weight.

Mutagenicity: No data available

Reproductive Toxicity: No data available

Neurotoxicity: No data available

Target Organs: Liver, kidneys and gross motor function.

Aspiration Hazard: Not anticipated to be an aspiration hazard based on physical characteristics.

Carcinogenicity: The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, the category for limited evidence for carcinogenicity in humans. However, the more current 2,4-D lifetime feeding studies in rats and mice, as well as an MCPP lifetime feeding study in rats, did not show carcinogenic potential. Dicamba did not cause cancer in long-term animal studies. The U.S. EPA has given 2,4-D and dicamba a Class D classification (not classifiable as to human carcinogenicity).

Chemical Name	ACGIH	IARC	NTP	OSHA
Exposure to chlorophenoxy herbicides		2B		

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

2,4-D and MCPP-P have properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

NON-TARGET ORGANISM ADVISORY: This product is toxic to plants and may adversely impact the

forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

ECOTOXICITY DATA:

Fish Toxicity: 2,4-D Dimethylamine salt:
Bluegill 96 hr LC₅₀ = 524 mg/L; Rainbow trout 96 hr LC₅₀ = 250 mg/L
Mecoprop-p Dimethylamine salt:
Bluegill 96 hr LC₅₀ = 112 mg/L; Rainbow trout 96 hr LC₅₀ = 111 mg/L
Dicamba acid:
Bluegill 96 hr LC₅₀ = 135 mg/L; Rainbow trout 96 hr LC₅₀ = 135 mg/L

Aquatic Invertebrate Toxicity: 2,4-D Dimethylamine salt: Daphnia 48 hr EC₅₀ = 184 mg/L
Mecoprop-p Dimethylamine salt: Daphnia 48 hr EC₅₀ = 256 mg/L
Dicamba acid: Daphnia 48 hr EC₅₀ = 110 mg/L

Aquatic Plant Toxicity: Mecoprop-p Dimethylamine salt: Green algae 72 hr EC₅₀ = 100 mg/L

Avian Toxicity: 2,4-D Dimethylamine salt:
Bobwhite Quail oral LD₅₀ = 500 mg/L;
Mallard Duck 8-Day Dietary LC₅₀ >5,620 mg/L
Mecoprop-p Dimethylamine salt:
Bobwhite Quail oral LD₅₀ >5,600 mg/L
Mallard Duck 8-Day Dietary LC₅₀ = 625 mg/L
Dicamba acid:
Bobwhite Quail 8-Day Dietary LC₅₀ >10,000 mg/L
Mallard Duck 8-Day Dietary LC₅₀ >10,000 mg/L

Honeybee Toxicity: No data available

ENVIRONMENTAL

EFFECTS:

Persistence and Degradability: No data available
Bioaccumulation: No data available
Mobility: No data available
Other Adverse Effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.

Container Disposal: Refer to the pesticide label for full information on disposal. DO NOT puncture or incinerate container.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORTATION INFORMATION

DOT UN1950, Aerosols, flammable, 2.1
(Ground): (Cans less than 1L in capacity qualify for Limited Quantity Exceptions)
IMDG
(Sea): UN1950, Aerosols, flammable, 2.1
IATA
(Air): UN1950, Aerosols, flammable, 2.1

SECTION 15: REGULATORY INFORMATION

Labeling Requirements Under FIFRA: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear long-sleeved shirt, long pants, shoes, socks, and chemical resistant gloves made of any waterproof material. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Difference between SDS and Pesticide Label

	EPA LABEL	OSHA SDS
Signal Word	CAUTION	WARNING
Flammable Aerosol	Precautions and language found under Physical and Chemical Hazards heading.	Flammable aerosol
Eye Irritation/Damage	Causes moderate eye irritation	Not classified

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:

Section 302 – Extremely hazardous substances: None
Section 311/312 – Hazard Categories: Immediate (Acute); Delayed (Chronic)
Section 313 – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
2,4-D Acid	94-75-7	0.154%
Dicamba	1918-00-9	0.017%

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
2,4-D Salts & Esters	2008-39-1	100 lbs	Not reached with any practical quantity
Dicamba	1918-00-9	1,000 lbs.	Not reached with any practical quantity

CALIFORNIA PROPOSITION 65:

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2,4-D	X		X
Dicamba	X		X

SECTION 16: OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 2	Instability 0	Special Hazards – None
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Revision Date: February 6, 2024
Document Superseded: September 8, 2023
Revision Note: Updated Section 14; Transportation classifications