



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome

SECTION 1: Identification

GHS Product identifier

Product name	Ferti-lome
Product number	10510; 10515; 10519
Brand	Ferti-lome

Recommended use of the chemical and restrictions on use
Herbicide.

Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham TX 75418 USA
Telephone	855-270-4776

Emergency phone number

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

General hazard statement

irritant in contact with skin. Harmful if inhaled. Causes serious eye damage. Harmful to aquatic life with long lasting effects. Flammable liquid and vapor.

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

- Acute toxicity, dermal, Cat. 4
- Acute toxicity, inhalation, Cat. 4
- Eye damage/irritation, Cat. 1
- Flammable liquids, Cat. 3

GHS label elements, including precautionary statements

Pictograms



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Signal word

Danger

Hazard statement(s)

H312 Harmful in contact with skin
H332 Harmful if inhaled
H318 Causes serious eye damage
H226 Flammable liquid and vapor

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor/.../ if you feel unwell.
P321 Specific treatment (see ... on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to ...
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/...
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378 In case of fire: Use ... to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Dma 4 (dow) 49 percent 2,4- d, dimethylamine salt (CAS no.: 2008-39-1)	5.88 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Mcpp-p, dma salt (CAS no.: 66423-09-4)	5.45 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Dimethylamine dicamba (CAS no.: 2300-66-5; EC no.: 218-951-7; Index no.: 607-044-00-5)	1.21 %
CLASSIFICATIONS: Eye damage/irritation, Cat. 2A; Hazardous to the aquatic environment, long-term (chronic), Cat. 3. HAZARDS: H319 - Causes serious eye irritation; H412 - Harmful to aquatic life with long lasting effects.	

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

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If inhaled	Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
In case of eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
If swallowed	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Personal protective equipment for first-aid responders	Use personal protective equipment as required.

Most important symptoms/effects, acute and delayed

No information available

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use. Foam. Carbon dioxide (CO₂). Dry chemical. Water spray (fog).

Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special protective actions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional

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ecological information.

Methods and materials for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7: Handling and storage

Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharges. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials: Acids.

SECTION 8: Exposure controls/personal protection

Control parameters

1. Dma 4 (dow) 49 percent 2,4- d, dimethylamine salt (CAS: 2008-39-1)

TWA (Inhalation): 10 mg/m³ (ACGIH)

TWA: 10 mg/m³ (US/OSHA)

IDLH: 10 mg/m³ (NIOSH)

TWA: 10 mg/m³ (NIOSH)

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin protection

Wear protective gloves and protective clothing. Wear long-sleeved shirt, long pants, socks and shoes.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)

Odor

Odor threshold

Liquid

Amines

No information available

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pH	7.5-8.5
Melting point/freezing point	<35 °F
Initial boiling point and boiling range	212 °F
Flash point	117 °F CC (closed cup)
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	<17 mm Hg @68°F
Vapor density	>1
Relative density	8.6 pounds/gallo
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

Additional properties

Physical state	Liquid
Color	Brown

SECTION 10: Stability and reactivity

Reactivity

No data available.

Chemical stability

Stable.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Keep from freezing.

Incompatible materials

Acids.

Hazardous decomposition products

May emit toxic fumes under fire conditions. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Dimethylamine dicamba

LD50 Oral - Rat - 2629 mg/kg

LD50 Skin - Rabbit - 2 g/kg

DMA 4 (DOW) 49 PERCENT 2,4- D, DIMETHYLAMINE SALT

LD50 Oral - Rat - 625 mg/kg

LD50 Skin - Rabbit - 2115 mg/kg

IARC carcinogen

Result: Group 2B

MCPP-P, DMA salt

IARC carcinogen

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Result: Group 2B

Skin corrosion/irritation

Causes mild skin irritation.

Serious eye damage/irritation

Moderately irritating to the eyes.

Respiratory or skin sensitization

Numerical measures of toxicity - Product Information

Unknown Toxicity 5 % of the mixture consists of ingredient(s) of unknown toxicity

Oral LD50 > 5015 mg/kg body weight

Dermal LD50 > 2000 mg/kg body weight (rabbit)

Inhalation LC50 2 mg/L (4 Hr.)

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-gas) 12174 mg/L

Germ cell mutagenicity

No information available.

Carcinogenicity

The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for Carcinogenicity in humans.) The US EPA has given the chlorophenoxy Herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive toxicity

No information available.

Specific target organ toxicity (STOT) - single exposure

No information available.

Specific target organ toxicity (STOT) - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

Toxicity

Harmful to aquatic life with long lasting effects

6% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

SECTION 13: Disposal considerations

Disposal methods

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Product disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Packaging disposal

Do not reuse container, unless specified

Waste treatment

Disposal should be in accordance with applicable regional, national and local laws and regulations. US EPA Waste Number D001.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Water hazard class (WGK, Germany)

Chemical name: Dma 4 (dow) 49 percent 2,4- d, dimethylamine salt, cas number: 2008-39-1
WGK hazard class: WGK 2 - Hazardous to water

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Dimethylamine dicamba
CAS number: 2300-66-5
TRI listing: X-reportable; CERCLA listing: unlisted; TURA-only listing: no; de minimis concentration threshold: 1 percent. Changes: Added to TURA and TRI RY1995

New Jersey Right To Know Components

Common name: Dimethylamine dicamba
CAS number: 2300-66-5

European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances (EINECS/ELINCS)

Product name: Ferti-lome

Japanese Existing and New Chemical Substances (ENCS)

Product name: Ferti-lome

China Inventory of Existing Chemical Substances (IECSC)

Product name: Ferti-lome

Philippine Inventory of Chemicals and Chemical Substances (PICCS)

Product name: Ferti-lome

Australian Inventory of Chemical Substances (AICS)

Product name: Ferti-lome

SARA 313 Components

Product name: Ferti-lome

SARA 311/312 Hazards

Product name: Ferti-lome

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CWA (Clean Water Act)

Product name: Ferti-lome

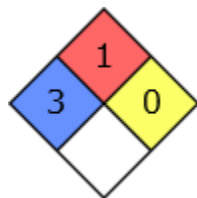
Comprehensive Environmental Response Compensation and Liability Act (CERCLA)(401 CFR 302)

Product name: Ferti-lome

HMIS Rating

Ferti-lome	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

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