



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Ferti-lome Weed Free Zone

SECTION 1: Identification

GHS Product identifier

Product name	Ferti-lome Weed Free Zone
Product number	10523; 10524; 10525; 10525Q; 10529
Brand	Ferti-lome

Other means of identification

EPA Reg. No. 2217-855-7401

Recommended use of the chemical and restrictions on use

Residential herbicide

Supplier's details

Name	Voluntary Purchasing Groups, Inc.
Address	230 FM 87 Bonham TX 75418 USA

Telephone	855-270-4776
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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

Classification of the substance or mixture

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

- Acute toxicity, oral, Cat. 4
- Acute toxicity, dermal, Cat. 4
- Acute toxicity, inhalation, Cat. 3
- Eye damage/irritation, Cat. 2A
- Aspiration hazard, Cat. 1
- Flammable liquids, Cat. 4

GHS label elements, including precautionary statements

Pictograms



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Signal word

Danger

Hazard statement(s)

H302	Harmful if swallowed
H312	Harmful in contact with skin
H331	Toxic if inhaled
H319	Causes serious eye irritation
H304	May be fatal if swallowed and enters airways
H227	Combustible liquid

Precautionary statement(s)

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER /doctor if you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/container to in accordance with Federal, State and local regulations.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P312	Call a POISON CENTER/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331	Do NOT induce vomiting.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P403+P235	Store in a well-ventilated place. Keep cool.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Component 1 (trade secret)*	30 - 40 %, Trade secret*
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
2,4-D 2-ethylhexyl ester (CAS no.: 1928-43-4)	10.49 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Mecoprop-p [1] and its salts (CAS no.: 16484-77-8; EC no.: 240-539-0; Index no.: 607-434-00-5)	2.66 %
CLASSIFICATIONS: Acute toxicity, Cat. 4; Eye damage/irritation, Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 2. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage; H411 - Toxic to aquatic life with long lasting effects.	
Dicamba (CAS no.: 1918-00-9; EC no.: 217-635-6; Index no.: 607-043-00-X)	0.67 %
CLASSIFICATIONS: Acute toxicity, Cat. 4; Eye damage/irritation, Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 3. HAZARDS: H302 - Harmful if swallowed; H318 - Causes serious eye damage; H412 - Harmful to aquatic life with long lasting effects.	
Carfentrazone-ethyl (iso) (CAS no.: 128639-02-1; EC no.: —; Index no.: 607-309-00-5)	0.54 %
CLASSIFICATIONS: Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	

Trade secret statement (OSHA 1910.1200(i))

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*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
If inhaled	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Move to fresh air in case of accidental inhalation of vapors or decomposition products. 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. 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. Never give anything by mouth to an unconscious person. Call a physician immediately.
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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges. Ensure adequate ventilation, especially in confined areas

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Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas Do not flush into surface water or sanitary sewer system Prevent further leakage or spillage if safe to do so Prevent product from entering drains See Section 12 for additional 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

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

Reference to other sections

See Section 12 for additional ecological information.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep away from heat. Keep in properly labeled containers.

Specific end use(s)

Residential herbicide.

SECTION 8: Exposure controls/personal protection

Control parameters

1. 2,4-D 2-ethylhexyl ester (CAS: 1928-43-4)

TWA (Inhalation): 10 mg/m³ (OSHA)

TWA (Inhalation): 10mg/m³ (ACGIH)

IDLH (Inhalation): 100mg/m³ (NIOSH)

TWA (Inhalation): 10mg/m³ (NIOSH)

2. Carfentrazone-ethyl (iso) (CAS: 128639-02-1 EC: —)

TWA (Inhalation): 1mg/m³ (ACGIH)

Appropriate engineering controls

Local and General Ventilation, showers, and eyewash stations.

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

Eye/face protection

Tight sealing safety goggles. Face protection shield.

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Skin protection

Wear protective gloves and protective clothing.

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.)	Liquid
Odor	Esters
Odor threshold	No information available
pH	No data available
Melting point/freezing point	<35°F
Initial boiling point and boiling range	>200°F
Flash point	199 °F
Evaporation rate	<1
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	7.45 lbs/gal
Solubility(ies)	Emulsifier
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

Additional properties

Physical state	Liquid
Color	Amber

SECTION 10: Stability and reactivity

Reactivity

No information available.

Chemical stability

No information available.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. Keep out of reach of children.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

May emit toxic fumes under fire conditions. Hydrogen chloride. Nitrogen oxides (NOx). Carbon monoxide.

SECTION 11: Toxicological information

Information on toxicological effects

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Acute toxicity

Component 1

LD50 Oral - Rat - > 5000 mg/kg

LD50 Dermal - Rabbit - > 2000 mg/kg

LD50 Inhalation - Rat - > 5.2 mg/L - 4 h

2,4-D, 2-ethylhexyl ester

LD50 Oral - Rat - > 300 mg/kg

LD50 Dermal - Rabbit - > 2000 mg/kg

LD50 Inhalation - Rat - > 5.4 mg/L - 4 h

IARC carcinogen

Result: Group 2B

R(+)-2-(2-Methyl-4-chlorophenoxy)propionic acid (MCPP)

LD50 Oral - Rat - > 1050 mg/kg

IARC carcinogen

Result: Group 2B

3,6-Dichloro-o-anisic acid (Dicamba)

LD50 Oral - Rat - > 1039 mg/kg

LD50 Dermal - Rabbit - > 1716 mg/kg

LD50 Inhalation - Rat - > 5.14 mg/L - 4 h

Carfentrazone-ethyl

LD50 Oral - Rat - > 5143 mg/kg

LD50 Dermal - Rabbit - > 4000 mg/kg

LD50 Inhalation - Rat - > 5.09 mg/L - 4 h

Skin corrosion/irritation

Moderate skin irritation.

Serious eye damage/irritation

No information available.

Respiratory or skin sensitization

Irritant, moderate respiratory.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

Summary of evaluation of the CMR properties

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.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

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No data available.

Aspiration hazard

No information available.

SECTION 12: Ecological information

Toxicity

Toxic to aquatic life

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

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

Packaging disposal

Do not reuse container, unless specified by the manufacturer.

Waste treatment

US EPA Waste Number U240.

SECTION 14: Transport information

DOT (US)

For package sizes less than 127.9 gallons: product is non-regulated.

IMDG

Limited quantity applies with an inner packaging less than 5kg or less.

IATA

Not regulated

SECTION 15: Regulatory information

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

Massachusetts Right To Know Components

Chemical name: 2,4-D 2-ethylhexyl ester

CAS number: 1928-43-4

New Jersey Right To Know Components

Common name: 2,4-D-2-ethylhexyl ester

CAS number: 1928-43-4

Massachusetts Right To Know Components

Chemical name: 3,6-Dichloro-2-methoxybenzoic acid

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CAS number: 1918-00-9

New Jersey Right To Know Components

Common name: Dicamba

CAS number: 1918-00-9

Pennsylvania Right To Know Components

Chemical name: Benzoic acid, 3,6-dichloro-2methoxy-benzol diluent

CAS number: 1918-00-9

SARA 313 Components

Product name: Ferti-lome Weed Free Zone

CWA (Clean Water Act)

Product name: Ferti-lome Weed Free Zone

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

Product name: Ferti-lome Weed Free Zone

Chemical Safety Assessment

Federal Insecticide, Fungicide, Rodenticide Act Regulations

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:

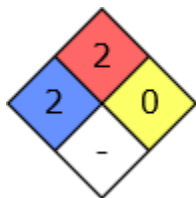
EPA Pesticide Label

Caution. Keep out of the reach of children. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Harmful if swallowed. When using this product, wear long-sleeved shirt, long pants, socks, shoes, and chemical resistant gloves.

HMIS Rating

Ferti-lome Weed Free Zone	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

NFPA Rating



SECTION 16: Other information

Further information/disclaimer

Voluntary Purchasing Groups, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Voluntary Purchasing Groups, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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