

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

Voluntary Purchasing Groups, Inc. 230 FM 87 Bonham, Texas 75418

Effective Date: May 26, 2015

Ferti-lome® Over-The-Top II Grass Killer

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Ferti-lome® Over-The-Top II Grass Killer

EPA No.: 7969-58-7401

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.

230 FM 87

Bonham, TX. 75418

2. HAZARDOUS IDENTIFICATIONS:

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 Classification of the product

Asp. Tox. 1 Aspiration hazard Flam. Liq. 4 Flammable liquids Acute Tox. 4 (Inhalation - mist) Acute toxicity

Skin Corr./Irrit. 2 Skin corrosion/irritation

Eye Dam./Irrit. 1 Serious eye damage/eye irritation

Carc. 2 Carcinogenicity

STOT SE 3 (Vapours may cause drowsiness and dizziness.)

Specific target organ toxicity — single exposure

Aquatic Acute 2 Hazardous to the aquatic environment - acute Aquatic Chronic 2 Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Signal Word: Danger

Hazard Statement:

H227 Combustible liquid.

H318 Causes serious eye damage.

H304 May be fatal if swallowed and enters airways. H336

May cause drowsiness or dizziness.

H351 Suspected of causing cancer. H401

Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P201 Obtain special instructions before use. P273 Avoid release to the environment.

P271 Use only outdoors or in a well-ventilated area.



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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/gas/mist/vapours.

Precautionary Statements (Response):

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 or doctor/physician.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P391 Collect spillage.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use water spray, dry powder, foam or carbon dioxide for

extinction.

Precautionary Statements (Storage):

P233 Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool. P405

Store locked up.

Precautionary Statements (Disposal):

P501

Dispose of contents/container to hazardous or special waste collection

point.

Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 64 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding

the acute toxicity: 64 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 64 % Inhalation - mist

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

WARNING:

Causes substantial but temporary eye injury. HARMFUL IF

SWALLOWED.

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

3. COMPOSITION, INFORMATION OF INGREDIENTS:

CAS Number	Content (W/W)	Chemical name
74051-80-2	18.0 %	Sethoxydim
64742-94-5	65.35 %	solvent naphtha
91-20-3	7.32 %	naphthalene
95-63-6	0.1 - 1.0 %	1,2,4-trimethylbenzene

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200



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91-20-3	7.32 %	naphthalene
	9.33 %	Proprietary ingredients

4. FI Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known. Hazards: Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), **no**

known specific antidote.

5. FIRE FIGHTING MEASURES:

Extinguishing media

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen oxide, nitrogen dioxide, Hydrocarbons, If product is heated above decomposition temperature, toxic vapours will be released. The

substances/groups of substances mentioned can be released if the product is involved in a fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.



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Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. HANDLING AND STORAGE:

Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & 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. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep

away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not

open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The

substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: Keep only in the original container in a cool, dry, well- ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed. Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated



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temperature for extended periods of time.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Components with occupational exposure limits

naphthalene OSHA PEL PEL 10 ppm 50 mg/m3 ; STEL value 15 ppm 75 mg/m3 ; TWA value 10 ppm

50 mg/m3

ACGIHTLV TWA value 10 ppm; STEL value 15 ppm;

Skin Designation;

The substance can be absorbed through the skin.

1,2,4-trimethylbenzene OSHA PEL TWA value 25 ppm 125 mg/m3;

ACGIHTLV TWA value 25 ppm;

solvent naphtha OSHA PEL PEL 100 ppm 400 mg/m3; TWA value 100

ppm 400 mg/m3;

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Form: liquid Odour: aromatic

Odour threshold: Not determined since harmful by inhalation.

Colour: yellow

pH value: approx. 3 - 5 (1 %(m), 25 °C)

Freezing point: approx. -20 °C Information applies to the solvent.

Boiling point: approx. 178 - Information applies to the solvent.

209 °C

Flash point: 145 °F

Flammability: not highly flammable

Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not

expect any hazard as long as the product is used appropriately and in accordance with the

intended use.

Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not

expect any hazard as long as the product is used appropriately and in accordance with the

intended use.

Autoignition: 449 - 510 °C Information applies to the solvent.

Vapour pressure: approx. 1 hPa (20 °C) Information applies to the solvent.

Density: approx. 0.93 (20 °C)

g/cm3

7.7696 Lb/USg (68 °F)

Vapour density: not applicable

Partitioning coefficient n-

octanol/water (log Pow): not applicable

Thermal decomposition: carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen dioxide, nitrogen oxide,

Hydrocarbons Stable at ambient temperature. If product is heated above decomposition

temperature toxic vapours may be released.

Viscosity, dynamic: approx. 2.80 (20 °C)

mPa.s

Solubility in water: emulsifiable

Molar mass: 327.5 g/mol

Evaporation rate: not applicable

Other Information: If necessary, information on other physical and chemical parameters is indicated in this

section.



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10. STABILITY & REACTIVITY DATA:

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties: Not an oxidizer.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Incompatible materials

oxidizing agents

Hazardous decomposition products

Decomposition products:

Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, Sulphur dioxide, nitrogen dioxide, nitrogen oxide, Hydrocarbons Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released.

11. TOXICOLOGICAL INFORMATION:

Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Slightly toxic after single ingestion. Relatively nontoxic after short-term inhalation. Slightly toxic after short-term skin contact.

Oral

Type of value: LD50

Species: rat (male) Value: 5,000 mg/kg

Type of value: LD50

Species: rat (female) Value: 4,285.8 mg/kg

Inhalation

Type of value: LC50 Species: rat Value: > 7.6 mg/l



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Exposure time: 4 h

<u>Dermal</u>

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

Type of value: LD50

Species: rat

Value: > 4,000 mg/kg Irritation / corrosion

Assessment of irritating effects: May cause moderate irritation to the skin. Causes substantial but temporary eye injury.

Skin

Species: rabbit Result: Irritating.

<u>Eye</u>

Species: rabbit Result: Irritating. Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: naphthalene

Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

The substance may cause damage to the olfactory epithelium after

repeated inhalation. Repeated dermal uptake of the substance did not cause substance-related

effects.

Information on: 1,2,4-trimethylbenzene

Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects.

Investigations using experimental animals show that the material can

cause lung tissue changes following inhalation.

Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: sethoxydim

Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.



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Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no

indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: sethoxydim

Assessment of teratogenicity: Causes developmental effects in animals at high, maternally toxic doses.

Other Information

Misuse can be harmful to health.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Medical conditions aggravated by overexposure

Existing dermatitis may be aggravated by exposure.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to fish. Acutely harmful for aquatic invertebrates. Very toxic (acute effect) to aquatic plants.

Toxicity to fish

LC50 (96 h) 43 - 63 mg/l, Oncorhynchus mykiss

LC50 (96 h) 19.375 mg/l, Cyprinodon variegatus

Aquatic invertebrates

EC50 (48 h) 18.5 mg/l, Daphnia magna

EC50 (96 h) 4.429 mg/l, Mysidopsis bahia

Toxicity to fish

Information on: sethoxydim

LC50 (96 h) 3.5 mg/l, Cyprinodon variegatus

Aquatic invertebrates

Information on: sethoxydim

EC50 (96 h) 0.8 mg/l, Mysidopsis bahia

Aquatic plants



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Information on: sethoxydim

No observed effect concentration (21 d) 0.1 mg/l (growth rate), aquatic plant (static)

EC50 (21 d) 0.3 mg/l (growth rate), aquatic plant (static)

Assessment of terrestrial toxicity

With high probability not acutely harmful to terrestrial organisms. Acutely toxic to honeybees.

Other terrestrial non-mammals

Information on: sethoxydim LD50 > 10 ug/bee, Apis mellifera LC50, Anas platyrhynchos

Persistence and degradability

Elimination information

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment bioaccumulation potential

Information on: sethoxydim

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: sethoxydim

Adsorption to solid soil phase is not expected.

Additional information

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

13. DISPOSAL INFORMATION:

Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.



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RCRA:

This product is not regulated by RCRA.

14. TRANSPORTATION INFORMATION:

Land transport

USDOT Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Hazard class: 9 Packing group: III

ID number: UN 3082

Hazard label: 9, EHSM Marine pollutant:

YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (contains SOLVENT NAPHTHA)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082

Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (contains SOLVENT NAPHTHA)

Further information

DOT: Combustible liquid, only regulated in receptacles exceeding 119 gallons; not shipped as dangerous goods in receptacles less than 120 gallons.

15. REGULATORY INFORMATIOM:

Federal Regulations

Registration status:

Crop Protection TSCA, US released / exempt

Chemical TSCA, US blocked / not listed

EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire

EPCRA 313:

CAS Number 91-20-3 Chemical name naphthalene

95-63-6 1,2,4-trimethylbenzene

CERCLA RQCAS NumberChemical name100 LBS91-20-3naphthalene

74051-80-2 Sethoxydim



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State regulations

State RTKCAS NumberChemical nameNJ74051-80-2SethoxydimMA, NJ, PA64742-94-5solvent naphthaMA, NJ, PA91-20-3naphthalene

CA Prop. 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

NFPA Hazard codes:

Health: 1 Fire: 2 Reactivity: 1 Special:

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

WARNING:

Causes substantial but temporary eye injury. HARMFUL IF

SWALLOWED.

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

Avoid contact with the skin, eyes and clothing.

16. OTHER INFORMATIOM:

SDS Prepared by:

Voluntary Purchasing Group SDS Prepared on: 20 May 2015

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT

PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE

SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.



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