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Version 1.02

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product name** MS-1029 SPOT SHOT

**Recommended use of the chemical and restrictions on use**

**Product code** F00141

**Product Type** Mixture Highly flammable aerosol  
**Synonyms** None

**Supplier's details**

**Recommended Use** Spot remover.  
**Uses advised against** No information available

**Manufactured For:**  
Mark Supply, Inc.  
P.O. Box 1451  
Venice, FL 34285

**Emergency telephone number**  
**Chemical Emergency Phone Number** INFOTRAC: 800-535-5053  
**Company Emergency Phone Number** 1-941-485-8199



**Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None

**Other information**

• Toxic to aquatic life with long lasting effects

0.000003% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %*
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	1-10
D-LIMONENE	5989-27-5	1-10
2-BUTOXYETHANOL	111-76-2	1-10

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****First aid measures for different exposure routes**

<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician or Poison Control Center immediately.

**Most important symptoms/effects, acute and delayed**

<b>Main Symptoms</b>	Irritating to skin. Causes serious eye damage. Causes drowsiness or dizziness. Harmful or fatal if swallowed and enters airways.
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**Indication of immediate medical attention and special treatment needed, if necessary**

<b>Notes to physician</b>	Treat symptomatically.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

#### Specific hazards arising from the chemical

##### Explosion Data

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** none.

##### Protective Equipment and Precautions for Firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

##### **Personal precautions**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Use with adequate ventilation. Keep can away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.

##### Environmental precautions

##### **Environmental precautions**

Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

#### Methods and materials for containment and cleaning up

##### **Methods for Containment**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.

##### **Methods for cleaning up**

Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

##### **Advice on safe handling**

Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid inhaling vapors or spray mists.

#### Conditions for safe storage, including any incompatibilities

##### **Technical measures/Storage conditions**

Keep containers tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. Store locked up.

##### **Incompatible products**

Store away from strong acids, alkalis, oxidizing agents.

##### **Aerosol Level**

1

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	74-98-6: TWA: 1000 ppm 106-97-8: STEL: 1000 ppm 75-28-5: STEL: 1000 ppm	74-98-6:TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m <sup>3</sup> 106-97-8: (vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	74-98-6:IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup> 106-97-8:TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup> 75-28-5:TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>
2-BUTOXYETHANOL 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

NIOSH IDLH: Immediately Dangerous to Life or Health

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Exposure controls**

**Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**

Safety glasses with side-shields.

**Skin and body protection**

Chemical resistant apron. Protective gloves.

**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.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and chemical properties**

**Physical state**

Aerosol

**Appearance**

Hazy

**Color**

hazy

**Odor**

Slight Fragrance

**Odor Threshold**

**Property**

**Values**

**Remarks • Methods**

**pH**

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**Melting/freezing point**

No information available

**Boiling point/boiling range**

**Flash Point**

-104.4 °C / -156

**Evaporation rate**

No information available

**Flammability (solid, gas)**

No information available

**Flammability Limits in Air**

upper flammability limit

lower flammability limit

**Vapor pressure**

Vapor density	
Specific Gravity	.935
Water solubility	Practically insoluble
Partition coefficient: n-octanol/water	
Autoignition temperature	No information available
Decomposition temperature	
Viscosity	No information available
Explosive properties	

**Other information**

VOC Content(%)	27.33
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## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Extremes of temperature and direct sunlight.

**Incompatible Materials**

Store away from strong acids, alkalis, oxidizing agents.

**Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Vapors may irritate throat and respiratory system. May cause respiratory irritation; or may cause drowsiness or dizziness. May cause irritation of respiratory tract. Avoid inhaling vapors or mists.
<b>Eye contact</b>	Irritating to eyes. Irritating to eyes .
<b>Skin contact</b>	May cause an allergic reaction with skin if in direct contact. Repeated exposure may cause skin dryness or cracking. May cause skin irritation and causes serious eye irritation. May be fatal if swallowed and enters airways. Suspected causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation; or may cause drowsiness or dizziness. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Ingestion</b>	May be fatal if swallowed and enters airways. Aspiration into the lungs during swallowing may be harmful.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-LIMONENE 5989-27-5	= 4400 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
2-BUTOXYETHANOL 111-76-2	= 470 mg/kg ( Rat )	= 99 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h

Information on toxicological effects

**Symptoms** Causes eye, skin, and respiratory irritation. May be harmful if swallowed and cause lung damage.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** May cause an allergic reaction with skin if in direct contact.  
**Eye damage/irritation** Irritating to eyes.  
**Irritation** May cause skin, eye and respiratory irritation.  
**Sensitization** None known.  
**Germ Cell Mutagenicity** Not acutely toxic. May be harmful if swallowed.  
**Carcinogenicity** The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-BUTOXYETHANOL 111-76-2	-	Group 3	-	-

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

**Reproductive toxicity** This product does contain a chemical which is known or suspected reproductive hazards.

**Developmental Toxicity**

Not acutely toxic. May be harmful if swallowed.

**Specific target organ systemic toxicity (single exposure)**

May cause respiratory irritation. May cause drowsiness and dizziness.

**Specific target organ systemic toxicity (repeated exposure)**

None under normal use conditions.

**Chronic toxicity**

May cause adverse liver effects.

**Target Organ Effects**

Eyes, Lungs, Respiratory System, Skin, Central Nervous System, Peripheral Nervous System, Eyes, Kidney, Liver, Lungs, Respiratory System, Skin, Blood, and Hematopoietic System) through prolonged or repeated exposure, Central Nervous System, Eyes, Kidney, Liver, Peripheral Nervous System, Respiratory System, Skin, Central Vascular System, and Lungs, Hematopoietic System, Central Nervous System, Peripheral Nervous System, Eyes, Kidney, Liver, Lungs, Respiratory System, Skin, Blood, and Hematopoietic System, through prolonged or repeated exposure, Central Nervous System, Peripheral Nervous System, Eyes, Kidney, Liver, Lungs, Respiratory System, Skin, Blood, and Hematopoietic System through prolonged or repeated exposure, Central Nervous System, Peripheral Nervous System, Eyes, Kidney, Liver, Lungs, Respiratory System, Skin, Blood and Hematopoietic System, Central Nervous System, Peripheral Nervous System, Eyes, Kidney, Liver, Lungs, Respiratory System, Skin, Blood and Hematopoietic System.

**Aspiration hazard**

May be toxic if swallowed and enters airways.

Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 0.000003% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 5259 mg/kg

ATEmix (dermal) 12308 mg/kg

ATEmix (inhalation-dust/mist) 16.8 mg/l

**12. ECOLOGICAL INFORMATION**Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
D-LIMONENE 5989-27-5	-	0.619 - 0.796 mg/L LC50 Pimephales promelas 96h flow-through 35 mg/L LC50 Oncorhynchus mykiss 96h	-	-

2-BUTOXYETHANOL 111-76-2	-	1490 mg/L LC50 Lepomis macrochirus 96h static 2950 mg/L LC50 Lepomis macrochirus 96h	-	1000 mg/L EC50 Daphnia magna 48h
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**Persistence and degradability**

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**Bioaccumulation**

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Chemical Name	log Pow
PROPANE/ISOBUTANE/N-BUTANE 68476-86-8	<=2.8
2-BUTOXYETHANOL 111-76-2	0.81

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods**

It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

**Contaminated packaging**

Do not re-use empty containers.

**14. TRANSPORT INFORMATION****DOT Ground**CONSUMER COMMODITY ORM-D  
or  
LIMITED QUANTITY**IATA**

UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

**IMDG**

UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

**15. REGULATORY INFORMATION****International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
PROPANE/ISOBUTANE/N-BUTANE	X	X	X	Not listed	X	X	X	X
D-LIMONENE	X	X	X	X	X	X	X	X
2-BUTOXYETHANOL	X	X	X	X	X	X	X	X

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances



**ENCS** - Japan Existing and New Chemical Substances  
**CHINA** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain 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-No	Weight %*	SARA 313 - Threshold Values %
2-BUTOXYETHANOL - 111-76-2	111-76-2	8.9375	1.0

#### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Star Hazard</b>	Yes
<b>Fire Hazard</b>	Yes
<b>Sudden Release of Pressure Hazard</b>	Yes
<b>Reactive Hazard</b>	no

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### U.S. State Regulations

#### **California Proposition 65**

This product does not contain any known Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-BUTOXYETHANOL 111-76-2	X	X	X

**EPA Pesticide Registration Number** Not applicable

#### **Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

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<u>NFPA</u>	Health Hazard 2	Flammability 4	Instability 0	Physical and chemical hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 4	Physical Hazard 1	Personal protection B

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Revision Note

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**