

# MATERIAL SAFETY DATA SHEET

## Section I– Product & Company Identification

<b>Product Name</b>	<b>DRO GRILL &amp; OVEN CLEANER</b>
<b>Effective Date</b>	7/31/09
<b>Company Information</b>	Specialty Products of America, LLC 516 Monceaux Road West Palm Beach, FL 33405
<b>Company Phone</b>	561-209-1800
<b>Emergency Phone</b>	<b>800-535-5053</b>

## Section II– Hazards Identification

<b>Emergency Overview</b>	CONTENTS UNDER PRESSURE Aerosol. Pressurized container may explode when exposed to heat or flame. Corrosive. Causes skin and eye burns. Cancer hazard. Irritating to respiratory system. Prolonged exposure may cause chronic effects.
<b>OSHA Regulatory Status</b>	This product is considered hazardous under 29 CFR <b>1910.1200</b> (Hazard Communication).
<b>Potential Health Effects</b>	
<b>Routes of exposure</b>	Skin contact. Eye contact. Inhalation.
<b>Eyes</b>	This product may cause eye burns. Risk of serious damage to eyes.
<b>Skin</b>	Causes skin burns. This product may be harmful if it is absorbed through the skin.
<b>Inhalation</b>	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
<b>Ingestion</b>	Exposure by ingestion of an aerosol is unlikely. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause delayed lung damage.
<b>Target Organs</b>	Central nervous system. Respiratory system.
<b>Chronic Effects</b>	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.
<b>Signs and symptoms</b>	Discomfort in the chest. Narcosis. Components of this product are hazardous to aquatic life.

## Section III – Composition / Information on Ingredients

<b>Components</b>	<b>CAS</b>	<b>Percent</b>
Diethylene Glycol Monobutyl Ether	112-34-5	8-10
Sodium Hydroxide	1310-73-2	5-8
Propane	74-98-6	3-5
n-Butane	106-97-8	3-5
Monethanolamine	141-43-5	3-5
Crystalline Silica	14808-60-7	0.5-1
Non-hazardous and other components below reportable levels		60-80

## Section IV – First Aid Measures

<b>First Aid Procedures</b>	
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
<b>Inhalation</b>	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Ingestion</b>	Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Note to Physician</b>	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General Advice</b>	Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

## Section V – Fire and Explosion Data

<b>Flammable Properties</b>	Containers may explode when heated.
<b>Extinguishing Media</b>	

<b>Suitable Extinguishing Media</b>	Large Fires: Water spray, fog or regular foam.
<b>Unsuitable Extinguishing Media</b>	Small Fires: Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Specific hazards arising from the chemical</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Protection of Fire Fighters</b>	Fire may produce irritating, corrosive and/or toxic gases.
<b>Protective Equipment and Precautions for Fire Fighters</b>	In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from the area and let fire burn.
<b>Specific hazards</b>	Fire may produce irritating, corrosive and/or toxic gases.

### Section VI – Accidental Release Measures

<b>Personal Precautions</b>	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
<b>Methods for Containment</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.
<b>Methods for Cleaning Up</b>	Should not be released in the environment. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

### Section VII– Handling and Storage

<b>Handling</b>	Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do breathe gas/fumes/vapor/spray. Do not get this material on clothing. Wear personal protective equipment. Avoid prolonged exposure.
<b>Storage</b>	Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Use care in handling/storage. Store at ambient temperature and atmospheric pressure.

### Section VIII – Exposure Controls/Personal Protection

#### Exposure Limits

##### ACGIH

Components	CAS#	TWA	STEL	Ceiling
Diethylene Glycol Monobutyl Ether	112-34-5	20 ppm	Not established	Not established
Sodium Hydroxide	1310-73-2	Not established	Not established	2 mg/m <sup>3</sup>
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Monethanolamine	141-43-5	3 ppm	6 ppm	Not established
Crystalline Silica	14808-60-7	0.025 mg/m <sup>3</sup>	Not established	Not established

##### OSHA

Components	CAS#	TWA	STEL	Ceiling
Diethylene Glycol Monobutyl Ether	112-34-5	100 ppm	Not established	Not established
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Monethanolamine	141-43-5	3 ppm	Not established	Not established

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Wear chemical goggles.
<b>Skin Protection</b>	Do not get this material on clothing. Wear appropriate chemical resistant gloves. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Wear chemical protective equipment that is specifically recommended by the manufacturer.
<b>Respiratory Protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General Hygiene Considerations</b>	Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice.

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## Section IX – Physical And Chemical Data

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<b>Appearance</b>	Aerosol
<b>Color</b>	Colorless
<b>Odor</b>	Ammoniacal
<b>Physical State</b>	Liquid
<b>Form</b>	Aerosol
<b>Flammability (HOC)</b>	17.12 kJ/g estimated
<b>Flash Back</b>	No
<b>Pressure</b>	61 - 71 psig @70°F
<b>Solubility</b>	Completely
<b>Flash Point</b>	-76°F (-60°C) estimated
<b>Boiling Point</b>	381.2° (193.9°C) estimated
<b>Specific Gravity</b>	1.0082 estimated
<b>pH (Concentrate)</b>	13-14

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## Section X – Chemical Stability And Reactivity Data

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<b>Chemical Stability</b>	Stable at normal conditions.
<b>Conditions to Avoid</b>	Heat, flames and sparks
<b>Incompatible materials</b>	Nitromethane. Water.
<b>Hazardous Decomposition Products</b>	May include oxides of oxides of carbon

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## Section XI–Toxicological Information

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<b>Acute Effects</b>	Acute LD50: 18409 mg/kg estimated, Rat, Oral Acute LD50: 12919 mg/kg estimated, Rat, Dermal Acute LC50: 189 mg/l/4h estimated, Rat, Inhalation Causes burns.
<b>Local Effects</b>	Irritating to respiratory system.
<b>Chronic Effects</b>	Hazardous by OSHA criteria. This product may be harmful if absorbed through the skin. Repeated absorption may cause disorder of central nervous system, liver, kidneys, and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.
<b>Carcinogenicity</b>	Cancer hazard. Hazardous by OSHA criteria.
<b>Neurological Effects</b>	Hazardous by OSHA criteria.
<b>Mutagenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>Reproductive Effects</b>	Not expected to be hazardous by OSHA criteria.
<b>Teratogenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>Further Information</b>	Symptoms may be delayed.

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## Section XII – Ecological Information

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<b>Ecotoxicity</b>	LC50 703 mg/L estimated, Fish, 96.00 Hours, EC50 811 mg/L estimated, Daphnia, 48.00 Hours, IC50 687 mg/L estimated, Algae, 72.00 Hours,
<b>Environmental effects</b>	Harmful to aquatic life.

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## Section XIII – Disposal Considerations

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<b>Waste Codes</b>	DOOI: Waste Flammable material with a flash point <140 F DOO2: Waste corrosive material [pH<=2 or =>12.5, or corrosive to steel.]
<b>Disposal Instructions</b>	Contents under pressure. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

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## Section XIV – Transport Information

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<b>Department of Transportation (DOT) Requirements</b>	
<b>Basic Shipping Requirements</b>	
<b>Proper Shipping Name</b>	Consumer commodity

Hazard Class ORM-D

IMDG

Basic Shipping requirements:
Proper shipping name AEROSOLS, flammable, corrosive
Hazard Class 2.1
UN number 1950
Additional information:
Packaging exceptions LTD QTY
Item 5FC
Labels required 2.1
+8
Transport Category 1



IATA

Basic Shipping requirements:
Proper shipping name AEROSOLS, flammable, containing substances in Class 8, Packing Group II
Hazard Class 2.1
UN number 1950
Additional information:
Packaging exceptions LTD QTY



Section XV – Regulatory Information

US Federal Regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory list.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Suerfund) reportable quantity Sodium Hydroxide 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories Immediate Hazard- Yes
Delayed Hazard-Yes
Fire Hazard- Yes
Pressure Hazard- Yes
Reactivity Hazard-No

Section 302 Extremely hazardous substance No

Section 311 Hazardous chemical Yes

Inventory Status

Table with 3 columns: Country(s) or Region, Inventory Name, On Inventory (Yes/No). Rows include China, Europe, Japan, Korea, and United States & Puerto Rico with various inventory names like IECSC, EINECS, ELINCS, ENCS, and TSCA Inventory.

A "Yes" indicates the all components of this product comply with the inventory requirements administered by the governing country(s)

State Regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

U.S. - Pennsylvania – RTK (Right to Know) List

Table with 3 columns: Chemical Name, CAS Number, and Hazard. Rows include Crystalline Silica, Diethylene Glycol Monobutyl Ether, Monethanolamine, n-Butane, Propane, and Sodium Hydroxide.

Section XVI – Other Information

**HMIS® Ratings**

Health: 3\*

Flammability: 2

Physical hazard: 0

Personal protection: X

**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.