

This brief provides a general overview of the **Safety Data Sheet** requirements in the Hazard Communication Standard OSHA's 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200).

### Section 1 ~ Identification

<b>Identity (As Used On Label and List)</b> <b>A1059 Restore</b>	<b>Date Prepared:</b> 06-03-2015
<b>Company Information:</b> OMEGA INDUSTRIAL SUPPLY, INC	<b>Emergency Telephone Number:</b> 1-800-424-9300
<b>Address (Number, Street, Suite/Apt#)</b> 101 Grobric Ct #1	<b>Telephone Number for Information:</b> 1-800-571-7347
<b>(City, State, and Zip Code)</b> Fairfield, CA 94534	<b>Signature of Prepare (Optional)</b> REGULATORY DEPT.

### Section 2 ~ Hazard(s) Identification

*Physical Hazards* Flammable aerosol Category 1

*Health Hazards* Not classified

*Environmental Hazards* Not classified

*OSHA Defined Hazards* Not classified

#### Label Elements



**Signal Word:** Danger

*Hazard Statement* Extremely flammable aerosol

*Precautionary Statement* Keep away from heat/spark/open flame/hot surfaces. – No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

*Response* If exposed or concerned: Get medical advice/attention.

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

*Disposal* Dispose of waste and residues in accordance with local authority requirements.

*Hazard(s) not Otherwise Classified (HNOC)* None known

*Supplemental Information* None

### Section 3 ~ Composition/Information on Ingredients

#### Mixtures

Components (Specific Chemical Identity, Common Name(s))	CAS No.	%(Wt.)
1,2,3-Propanetriol	56-81-5	2.5 – 10
Butane	106-97-8	2.5 – 10
Propane	74-98-6	1 – 2.5
Diethanolamine	111-42-2	0.1 – 1
Other components below reportable levels		80 - 90

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### Section 4 ~ First Aid Measures

**Inhalation:** If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Wash off with soap and water. Get Medical attention if irritation develops and persists.

**Eye Contact:** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

**Most Important Symptoms/Effects, Acute And Delayed:** Direct contact with eyes may cause temporary irritation.

**Indication Of Immediate Medical Attention And Special Treatment Needed:** Treat symptomatically

**General Information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### Section 5 ~ Fire Fighting Measures

**Suitable Extinguishing Media:** Not available.

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific Hazards Arising From The Chemical:** Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

**Special Protective Equipment And Precautions For Firefighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Fire-Fighting Equipment/Instructions:** Move container from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, with draw and let fire burn out.

**Specific Methods:** Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

**General fire hazards:** Extremely flammable aerosol.

### Section 6 ~ Accidental Release Measures

**Personal Precautions, Protective Equipment And Emergency Procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection see section 8 of the SDS.

**Methods And Materials For Containment And Cleaning Up:** Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS..

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

**Section 7 ~ Handling and Storage**

**Precautions For Safe Handling:** Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not use re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment observe good hygiene practices. Level 1 Aerosol.

**Conditions For Safe Storage, Including Any Incompatibilities:** Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see section 10 of the SDS).

**Section 8 ~ Exposure Controls/Personal Protection****Occupational Exposure Limits:****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)				US. NIOSH: Pocket Guide to Chemical Hazards		
Components	Type	Value	Form	Components	Type	Value
1,2,3-Propanetriol (56-81-5)	PEL	5 mg/m3 15 mg/m3	Respirable Fraction	Butane (106-97-8)	TWA	1900 mg/m3 800 ppm
Propane (74-98-6)	PEL	1800 mg/m3 1000 ppm		Diethanolamine (111-42-2)	TWA	15 mg/m3 3 ppm
<b>US. ACGIH Threshold Limit Values</b>				Propane (74-98-6)	TWA	1800 mg/m3 1000 ppm
Components	Type	Value	Form			
Butane (106-97-8)	STEL	1000 ppm				
Diethanolamine (111-42-2)	TWA	1 mg/m3	Inhalable fraction and vapor.			

**Biological Limit Values:** No biological exposure limits noted for the ingredient(s).

**Exposure Guidelines****US - California OELs: Skin designation**

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

**Appropriate Engineering Controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have been established, maintain airborne levels to an acceptable level.

**Individual Protection Measures, Such As Personal Protective Equipment**

**Eye/Face Protection:** Wear safety glasses with side shields (or goggles)

**Skin Protection**

**Hand Protection:** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

**Thermal Hazards:** Wear appropriate thermal protective clothing, when necessary.

**General Hygiene Considerations:** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Section 9 ~ Physical Chemical Properties**

Appearance and Odor	Gas aerosol, Odor – Not Available	Explosive Limit – Upper	Not Available
pH	Not Available	Vapor Pressure	Not Available
Melting/Freezing Point	Not Available	Vapor Density	Not Available
Boiling Point	237.36 °F (114.09 °C) Estimated	Relative Density	Not Available
Flash Point (Method Used)	156°F (-104.4°C) Propellant estimated.	Solubility in Water	Not Available
Evaporation Rate	Not Available	Partition Coefficient (n-octanol/water)	Not Available
Flammability	Not Available	Auto - Ignition Temperature	Not Available
Upper Flammability Level	Not Available	Decomposition temperature	Not Available
Lower Flammability Level	Not Available	Viscosity	Not Available
Explosive Limit - Lower	Not Available	Specific Gravity	0.916 estimated

**Section 10 ~ Stability and Reactivity**

**Reactivity:** The product is stable and Non-reactive under normal conditions of use, storage and transport.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur.

**Conditions to Avoid:** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible Materials:** Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

**Hazardous Decomposition Products:** No hazardous decomposition products are known.

**Section 11 ~ Toxicological Information****Information On Likely Routes Of Exposure**

**Inhalation:** No adverse effects due to inhalation are expected.

**Skin Contact:** No adverse effects due to skin contact are expected.

**Eye Contact:** Direct contact with eyes may cause temporary irritation.

**Ingestion:** Expected to be a low ingestion hazard.

**Symptoms Related To The Physical, Chemical And Toxicological Characteristics:** Direct contact with eyes may cause temporary irritation.

**Information On Toxicological Effects****Acute Toxicity:**

Product	Species	Test Results	
<b>1,2,3-Propanetriol (56-81-5)</b>	Acute Dermal LD50	Guinea pig 45 ml/kg, Days	
	Inhalation LC50	Rat 4655 mg.min/l, 7 Hours	
	Oral LD50	Guinea pig	> = 10000 mg/kg
		Mouse	23000 mg/kg
		Rat	20.81 ml/kg 18300 mg/kg
<b>Butane (106-97-8)</b>	Acute Inhalation LC50	Mouse	1237 mg/l, 120 minutes
		Rat	52%, 120 minutes
			1355 mg/l
<b>Diethanolamine (111-42-2)</b>	Acute Oral LD50	Rat	1100 mg/kg
<b>Propane (74-98-6)</b>			

Acute Inhalation LC50	Mouse	1237 mg/l, 120 minutes
	Rat	52 % 120 Minutes 1355 mg/l 658 mg/l/4h

\* Estimates for product may be based on additional component data not shown.

**Skin Corrosion/Irritation:** Prolonged skin contact may cause temporary irritation.

**Serious Eye Damage/Eye Irritation:** Direct contact with eyes may cause temporary irritation.

**Respiratory or Skin Sensitization**

**Respiratory Sensitization:** Not a respiratory sensitizer.

**Skin Sensitization:** This product is not expected to cause skin sensitization.

**Germ Cell Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity:** Risk of cancer cannot be excluded with prolonged exposure.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens:** Not listed.

**Reproductive Toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific Target Organ Toxicity - Single Exposure:** Not classified

**Specific Target Organ Toxicity - Repeated Exposure:** Not classified

**Aspiration Hazard:** Not likely, due to the form of the product.

**Chronic Effects:** Prolonged exposure may cause chronic effects.

## Section 12 ~ Ecological Information

**Ecotoxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Components

1,2,3-Propanetriol (56-81-5)

Aquatic Fish

### Species

LC50

Rainbow trout, donaldson trout (*Oncorhynchus mykiss*)

### Test Results

51000 - 57000 mg/l, 96 hours

Diethanolamine (111-42-2)

Aquatic Algae

IC50

Algae

7.8 mg/l, 72 hours

Crustacea

EC50

Daphnia

55mg/l, 48 hours

Fish

LC50

Fathead minnow (*Pimephales promelas*)

100 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and Degradability:** No data is available on the degradability of this product.

**Bioaccumulative Potential**

**Partition Coefficient n-octanol / Water (log Kow)**

1,2,3-Propanetriol -1.76

Butane 2.89

Diethanolamine -1.43

Propane 2.36

**Mobility in Soil:** No data available.

**Other Adverse Effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13 ~ Disposal Considerations

**Disposal Instructions:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local Disposal Regulations:** Dispose in accordance with all applicable regulations.

**Hazardous Waste Code:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from Residues / Unused Products:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated Packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## Section 14 ~ Transport Information

### DOT

**UN Number:** UN1950

**UN Proper Shipping Name:** Aerosols, flammable, (each not exceeding 1 L capacity)

**Transport Hazard Class(es)**

Class: 2.1

**Subsidiary Risk:** -

**Label(s):** 2.1

**Packing Group:** Not applicable.

**Special Precautions For User:** Read safety instructions, SDS and emergency procedures before Handling. Read safety instructions, SDS and emergency procedures before handling.

**Special Provisions:** N82

**Packaging Exceptions:** 306

**Packaging Non Bulk:** None

**Packaging Bulk:** None

### IATA

**UN Number:** UN1950

**UN Proper Shipping Name:** Aerosols, flammable

**Class:** 2.1

**Transport Hazard Class(es)**

**Subsidiary Risk:** -

**Label(s):** 2.1

**Packing Group:** Not applicable.

**Environmental Hazards:** No.

**ERG Code:** 10L

**Special Precautions For User:** Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

**Other Information**

**Passenger And Cargo Aircraft:** Allowed with restrictions.

**Cargo Aircraft Only:** Allowed with restrictions.

**Packaging Exceptions:** LTD QTY

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

### IMDG

**UN Number:** UN1950

**UN Proper Shipping Name:** AEROSOLS

Class: 2.1

**Transport Hazard Class(es)**

**Subsidiary Risk** -

**Label(s)** 2.1

**Packing Group:** Not applicable.

**Environmental Hazards**

**Marine Pollutant:** No.

**EmS F-D, S-U**

**Special Precautions for User:** Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

**Packaging Exceptions:** LTD QTY

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

DOT



IATA:IMDG



**Section 15 ~ Regulatory Information**

**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Diethanolamine (CAS 111-42-2) Listed.

**SARA 304 Emergency Release Notification:** Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

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

**SARA 302 Extremely Hazardous Substance:** Not listed.

**SARA 311/312 Hazardous Chemical:** No

**SARA 313 (TRI reporting)**

Chemical Name	CAS Number	% by wt.
Diethanolamine	111-42-2	0.1 – 1

**Other Federal Regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Diethanolamine (CAS 111-42-2)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

**Safe Drinking Water Act (SDWA):** Not regulated.

**US State Regulations**

**US. California Controlled Substances, CA Department of Justice (California Health and Safety Code Section 11100):** Not listed.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

**US. Massachusetts RTK - Substance List**

1,2,3-Propanetriol (CAS 56-81-5)

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

**US. New Jersey Worker and Community**

**Right-to-Know Act**

1,2,3-Propanetriol (CAS 56-81-5)

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

**US. Pennsylvania Worker and Community**

**Right-to-Know Law**

1,2,3-Propanetriol (CAS 56-81-5)

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

**US. Rhode Island RTK**

Butane (CAS 106-97-8)

Diethanolamine (CAS 111-42-2)

Propane (CAS 74-98-6)

**US. California Proposition 65:** WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Diethanolamine (CAS 111-42-2) Listed: June 22, 2012

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**Section 16 ~ Other Information**

	NFPA	HMIS	Key
HEALTH	1	1	4= Severe
FLAMMABILITY	2	2	3= Serious
REACTIVITY	1	0	2= Moderate
OTHER/PROTECTION	-	X	1= Slight 0= Minimal

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