

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

Identity (As Used On Label and List) A1063 D-Ice	Date Prepared: 07-28-2014
Company Information: OMEGA INDUSTRIAL SUPPLY, INC	Emergency Telephone Number: 1-800-424-9300
Address (Number, Street, Suite/Apt#) 101 Grobric Ct #1	Telephone Number for Information: 1-800-571-7347
(City, State, and Zip Code) Fairfield, CA 94534	Signature of Prepare (Optional) REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

<i>Physical Hazards</i>	Flammable aerosols	Category 1	
<i>Health Hazards</i>	Serious eye damage/eye irritation	Category 2A	
	Specific target organ toxicity, single exposure	Category 3	Narcotic effects
<i>Environmental Hazards</i>	Hazardous to the aquatic environment, acute hazard	Category 2	
	Hazardous to the aquatic environment, long-term hazard	Category 2	
<i>OSHA Defined Hazards</i>	Not classified		

Label elements



Signal Word: Danger

Hazard Statement Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness.

Hazard(d) not otherwise classified (HNOC) None known.

Precautionary Statement Prevention Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not spray on an open flame or other ignition source. Pressured container: Do not pierce or burn, even after use. Avoid breathing gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye face protection.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures 50°C/122°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information 54.05% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 54.05% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

Section 3 ~ Composition/Information on Ingredients

Components (Specific Chemical Identity, Common Name(s))	CAS No.	%(Wt.)
Ethyl Alcohol	64-17-5	40 – 60%
Isopropyl Alcohol	67-63-0	40 – 60%
1, 2 – Propanediol	57-55-6	2.5 – 10%
Carbon Dioxide	124-38-9	2.5 – 10%
Other components below reportable levels		0.01 – 0.1%

#: this substance has workplace exposure limit(s).

vPvb: Very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

Composition comments: The full text for all R-phases is displayed in Section 16 on the SDS.

Section 4 ~ First Aid Measures

Eyes — Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention immediately.

Skin — Take off immediately all contaminated clothing. Wash off with warm water and soap. Get medical attention irritation develops and persists. For minor skin contact., avoid spreading material on unaffected skin.

Inhalation — Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion — In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. 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.

Most Important Symptoms/Effects, Acute And Delayed — Irritation of eyes and mucous membranes. May cause drowsiness or dizziness.

Indication Of Immediate Medical Attention And Special Treatment Needed — Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information — Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

Section 5 ~ Fire Fighting Measures

Suitable Extinguishing Media — Powder, alcohol resistant foam, water, carbon dioxide (CO2)

Unsuitable Extinguishing Media — Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical — Contents under pressure. Pressurized container may explode when exposed to heat or flame. Fore may produce irritating, corrosive and/or toxic gases.

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. Firefighters should wear full protective clothing including self-contained breathing apparatus. Structural firefighters protective clothing will only provide limited protection.

Fire-fighting equipment/instructions — In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. Do not direct water at source of leak or safety devices as icing may occur. Use water spray to cool unopened containers. 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, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Specific methods — Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. 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 – Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors and spray mist. 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 Sheet and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustible (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. If possible, turn leaking containers so that gas escapes rather than liquid. Isolate area until gas has dispersed. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Wipe up absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. For waste disposal, see section 13 of the SDS.

Environmental Precautions – Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Section 7 ~ Handling and Storage

Precautions For Safe Handling – Vapors may form explosive mixtures with air. May be ignited by open flame. 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 exposed containers to heat, flame, sparks or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Do not use in areas without adequate ventilation. Wear personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Do not empty into drains.

Conditions for safe storage, including any incompatibilities – Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. The pressure in sealed containers can increase under the influence of heat. 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. Store in a well-ventilated place. Refrigeration recommended. Keep away from food, drink and animal feeding stuff. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Level 2 Aerosol.

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

Components	Type	Value
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3 5000 ppm
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm
Isopropyl Alcohol (CAS 67-63-0)	PEL	980 mg/m3 400 ppm
US. ACGIH Threshold Limit Values		
Components	Type	Value
Carbon Dioxide (CAS 124-38-9)	STEL TWA	3000 ppm 5000 ppm
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
Isopropyl Alcohol (CAS 67-63-0)	STEL TWA	400 ppm 200 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3 30000 ppm	
	TWA	9000 mg/m3 5000 ppm	
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm	
Isopropyl Alcohol (CAS 67-63-0)	STEL	1225 mg/m3 500 ppm	
	TWA	980 mg/m3 400 ppm	
US Workplace Environmental Exposure Level (WEEL) Guides			
Components	Type	Value	Form
1,2-Propanediol (CAS 57-55-6)	TWA	10 mg/m3	Aerosol.

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Isopropyl Alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls – Ensure adequate ventilation, especially in confined areas. Provide eyewash station.

Respiratory Protection – Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Hand protection – Wear protective gloves.

Skin Protection Other – Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Thermal hazards – Wear appropriate thermal protective clothing, when necessary.

Eye/face protection – Avoid contact with eyes. Wear eye/face protection. Wear safety glasses with side shields (or goggles). Wear tight-fitting goggles or face shield.

General hygiene considerations – When using, do not eat, drink or smoke. Do not get in eyes. Avoid contact with skin. 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

Boiling Point	Not available	Specific Gravity	-
Vapor Pressure @ 70°F	85 mm Hg @ 72°F estimated	Melting/Freezing Point	Not available
Vapor Density	Not available	Evaporation Rate (Butyl Acetate = 1)	Not available
Solubility in Water	Not available	pH	Not available
Appearance and Odor — Clear, gas, colorless with alcoholic odor.		VOC (Weight%)	92.06 % estimated
Flash Point (Method Used): 53.6°F (12.0°C) estimated	Auto - Ignition Temperature: Not available	Lower Flammability Level: Not available	Upper Flammability Level: Not available

Section 10 ~ Stability and Reactivity

Stability: Risk of explosion. Risk of ignition.	Conditions to Avoid – Heat, flames and sparks. Aerosol containers are unstable at temperatures above 49°F. Avoid temperatures exceeding the flash point.	Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
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Incompatibility (Materials to Avoid) - Strong oxidizing agents. Isocyanates, acids, chlorine.

Hazardous Decomposition or Byproducts - No hazardous decomposition products are known.

Reactivity – The product is stable and non-reactive under normal conditions of use, storage and transport.

Section 11 ~ Toxicological Information

Information on likely routes of exposure

Ingestion — Expected to be a low ingestion hazard.

Inhalation — Prolonged inhalation may be harmful. Narcotic effects.

Skin contact — Not available.

Eye contact — Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity: Narcotic effects.

<u>Components</u>	<u>Species</u>	<u>Test Results</u>	<u>Components</u>	<u>Species</u>	<u>Test Results</u>
1,2-Propanediol (CAS 57-55-6)			Ethyl Alcohol (CAS 64-17-5)		
Acute			Acute		
Dermal LD50	Rabbit	> 2000 mg/kg, 24 hours	Inhalation LC50	Cat	85.41 mg/l, 4.5 Hours
Oral LD50	Guinea pig	19700 mg/kg		Mouse	43.68 mg/l, 6 hours
	Mouse	24900 mg/kg			> 60000 ppm
	Rat	22000 mg/kg		Rat	79.43 mg/l, 134 Minutes
					> 115.9 mg/l, 4 Hours
Isopropyl Alcohol (CAS 67-63-0)					51.3 mg/l, 6 Hours
Acute			Oral LD50	Monkey	6000 mg/kg
Dermal LD50	Rabbit	16.4 ml/kg, 24 Hours		Mouse	10500 ml/kg
Inhalation LC50	Rat	> 10000 ppm, 6 Hours		Rat	7800 ml/kg
Oral LD50	Rat	5.84 g/kg			7060 mg/kg
			Other LD50	Mouse	6000 mg/kg
				Rat	4070 mg/kg

* 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: Harmful in contact with eyes. Causes serious eye irritation.

Respiratory sensitization: Not available.

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

Germ cell mutagenicity: Not data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Hazardous by OSHA criteria. Hazardous by WHMIS criteria. Cancer hazard.

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

Reproductive toxicity: Possible reproductive hazard.

Specific target organ toxicity - single exposure: Narcotic effects.

Specific target organ toxicity - repeated exposure: Not classified.

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

Chronic effects: Hazardous by WHMIS criteria. Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause lung injury. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Further information: Reproductive toxicity. Symptoms may be delayed

Section 12 ~ Ecological Information

Ecotoxicity : Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

<u>Product</u>	<u>Species</u>	<u>Test Results</u>
D-Ice (CAS Mixture)		
Aquatic		
Algae	IC50	Algae 2172 mg/L, 72 Hours
Crustacea	EC50	Daphnia 12570 mg/L, 48 Hours
Fish	LC50	Fish 11837 mg/L, 96 Hours
1,2-Propanediol (CAS 57-55-6)		
Aquatic		
Crustacea	EC50	Daphnia 10000.0001 mg.L, 48 Hours
		Water flea (Daphnia magna) >10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100.1mg/l, 96 hours
Ethyl Alcohol (CAS 64-17-5)		
Aquatic		
Custacea	EC50	Water flea (Daphnia magna) 7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100.1mg/l, 96 hours
Isopropyl Alcohol (CAS 67-63-0)		
Aquatic		
Algae	IC50	Algae 1000.0001 mg/L, 72 Hours
Crustacea	EC50	Daphnia 13299 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis Macrochirus) > 1400 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: No data is available.

Partition coefficient n-octanol / water (log Kow)

1,-2-Propanediol	-0.92
Ehtyl Alcohol	-0.31
Isopropyl Alcohol	0.05

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. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Must be incinerated in a suitable incineration plant holding a permit delivered by competent authorities. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, water ways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. 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: D001: Waste Flammable material with a flash point < 140°F. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US Waste from residues / Unused products: Disposal 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 safe manner (see: Disposal instructions.)

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

Section 14 ~ Transport Information

US Dept. of Transportation (DOT)		Water Transportation (IMDG)		Air Transportation (IATA)	
Proper Shipping Name:	Aerosols	Proper Shipping Name:	Aerosols	Proper Shipping Name:	Aerosols, Flammable
Hazard Class:	2.1	Hazard Class:	2	Hazard Class:	2.1
UN Number:	UN1950	UN Number:	UN1950	UN Number:	UN1950
Packing group:	Not applicable	Packing exceptions:	Not applicable	Packing exceptions:	Ltd. Qty.
Labels:	None	Marine Pollutant:	Yes	Environmental hazard:	Yes

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling. 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.

DOT IATA:IMDG Marine Pollutant



General Information: IMDG Regulated Marine Pollutant

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. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substance Not applicable.

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

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency Release Notification: Not regulated.

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

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard categories: Immediate Hazard - No; Delayed Hazard - No; Fire Hazard - No; Pressure Hazard - No; Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance: Not listed

SARA 311/312 Hazardous Chemical: No chemical.

SARA 313 (TRI reporting) Chemical name: Not regulated

Other Federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated

Safe Drinking Water Act (SDWA): Not regulated.

US State Regulations

US. Massachusetts RTK - Substance List	US. New Jersey Worker and Community Right-to-Know Act	US. Pennsylvania Worker and Community Right-to-Know Law	US. Rhode Island RTK
Carbon Dioxide (CAS 124-38-9)	1,2-Propanediol (CAS 57-55-6)	1,2-Propanediol (CAS 57-55-6)	Isopropyl Alcohol (CAS 67-63-0)
Ethyl Alcohol (CAS 64-17-5)	Carbon Dioxide (CAS 124-38-9)	Carbon Dioxide (CAS 124-38-9)	
Isopropyl Alcohol (CAS 67-63-0)	Ethyl Alcohol (CAS 64-17-5)	Ethyl Alcohol (CAS 64-17-5)	
	Isopropyl Alcohol (CAS 67-63-0)	Isopropyl Alcohol (CAS 67-63-0)	

US. California Proposition 65 International Inventories This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
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	2	2	4= Severe
FLAMMABILITY	3	3	3= Serious
REACTIVITY	0	0	2= Moderate
OTHER/PROTECTION	X	X	1= Slight
			0= Minimal

Disclaimer: The information in the sheet was written based on the best knowledge and experience currently available. 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.