GIS & Safety Jata Sheets

What is an SDSP

	Safety Data Sheet
Ethanol, Denat	
Section 1	Product Description
Product Name: Recommended Use: Synonyms: Distributor: Chemical Information: Chemtrec:	Ethanol, Denatured, 95% Science education applications Alcohol, Ethyl alcohol Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)
Section 2	Hazard Identification
Classification of the chemic	cal in accordance with paragraph (d) of §1910.1200;
DANGER	
Highly flammable liquid and va	apor. May cause damage to organs.
GHS Classification: Flammable Liquid Category 2,	Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2
Other Safety Precautions:	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
Acute Toxicity Dermal Cont	
Section 3	Composition / Information on Ingredients
Chemical Name Ethanol Water 2-Propanol Methanol	CAS # % 64-17-5 86 7732-18-5 5 67-63-0 5 67-56-1 4
Section 4	First Aid Measures
Skin Contact: Afte	case of accident by inhalation: remove casualty to fresh air and keep at rest. case of contact with eyes, rinse immediately with plenty of water and seek medical advice. er contact with skin, wash immediately with plenty of water. wallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Section 5	Firefighting Procedures
Extinguishing Media: Fire Fighting Methods and P Fire and/or Explosion Hazard	Use dry chemical, CO2 or appropriate foam. Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Proc	explode. Extremely flammable
Section 6	Spill or Leak Procedures
Steps to Take in Case Materi Released or Spilled:	
Ethanol, Denatured, 9	

Under the new Globally Harmonized System of Classification and Labeling of Chemicals (GHS), the new Safety Data Sheet (SDS) replaces the old Material Safety Data Sheet (MSDS). The SDS is a **16-section document that tells you the hazards and** how to safely handle chemicals while on the job.

SECTION 1, *Identification*, includes the product identifier, the manufacturer or distributor name, the address, telephone number, emergency telephone number, recommended use, and restrictions on use.

SECTION 2, *Hazard(s) Identification*, covers all hazards of the chemical and the required label elements.

SECTION 3, Composition/Information on Ingredients, provides information on chemical ingredients, including trade secret claims.

SECTION 4 describes *First-Aid Measures*, separated out by routes of exposure and identifying the most important symptoms and effects. This section also explains when immediate medical attention and special treatment are needed.

SECTION 5, *Fire-Fighting Measures*, outlines extinguishing techniques, equipment, and any chemical hazards from fire.

SECTION 6 is *Accidental Release Measures*, which describes emergency procedures, protective equipment, and how to contain and cleanup when that product is spilled, released, or otherwise involved.

SECTION 7, Handling and Storage, identifies precautions for safely handling and storing the chemical product, including any incompatibilities.

SECTION 8, *Exposure Controls/Personal Protection*, indicates OSHA's permissible exposure limit, or PEL; ACGIH Threshold Limit Values, or TLVs; recommended engineering controls; and personal protective equipment, or PPE.

SECTION 9, Physical and Chemical Properties, lists the chemical's characteristics, such as appearance, odor, melting or freezing points, flash point, evaporation rate, flammability, and solubility, just to name a few.

SECTION 10, *Stability and Reactivity*, indicates the product's stability, possibility of hazardous reactions, conditions to avoid, incompatible materials, and hazardous decomposition products.

SECTION 11, *Toxicological Information*, describes the likely routes of exposure, symptoms of exposure, numerical measures of toxicity, and whether or not the product is listed in the National Toxicology Program, NTP, Report on Carcinogens or has been found to be a potential carcinogen by OSHA or in the International Agency for Research on Cancer, IARC, Monographs.

Section 12	Ecological Data			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. This material is expected to have moderate mobility in soil. It absorbs to most soil types. Biodegradation is expected to be a major fate process for this material. Bioconcentration is not expected to occur. Biodegrades quickly. No data			
Chemical Name Ethanol Water 2-Propanol Methanol	CAS Number Eco Toxicity 64-17-5 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 7732-18-5 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L 67-63-0 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 67-56-1 48 HR EC50 DARENNIA MACRIA 3000 µG/L			

		Handling	and Storage		
Storage:	non-sparking tools. dust/fume/gas/mist product. Wear prote Keep container tigh	eat/sparks/open flames/h aceiving equipment. Use Take precautionary mea /vapors/spray. Wash tho active gloves/protective o tty closed. Store in a we	not surfaces. – No smokin explosion-proof electrica asures against static disc proughly after handling. D clothing/eye protection/fa II-ventilated place. Keep	o no eat, drink or smoke v ice protection.	uipment. Use vhen using thi
Storage Code: Section 8	Red - Flammables.	Store in approved flamr	nable containers. Store a	away from oxidizing materi	als.
Sections		Protection	n Information		
Chemical Name			CGIH	OSHA F	PEL
Ethanol		(TWA) N/A	(<u>STEL)</u> 1000 ppm STEL	(<u>TWA)</u> 1000 ppm TWA; 1900 mg/m3 TWA	(<u>STEL)</u> N/A
2-Propanol		200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol		200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A
Respiratory Protect Respirator Type(s): Eye Protection: Skin Protection: Gloves: Section 9 Formula: See Section Molecular Weight: (Et Appearance: Colorless Odor: Moderate Alcoho Odor Threshold: No d pH: No data available	Equipment (PPE): ion: 3 :hanol) 46.07 s Liquid ol Odor	 Lab coat, apron, eye No respiratory protection exhaust ventilation if respirator is not norm None required where above the applicable Wear chemical splas available. Wear protective glow intervals. Clean protective with mild soap and w Nitrile 	s product to avoid overe. wash, safety shower. ction required under norr f symptoms of overexposinally required. e adequate ventilation is e exposure limits, use NIC sh goggles when handling res. Inspect gloves for child ective equipment regular vater before eating, drink Cal Data Vapor Pressure: 57.3 Evaporation Rate (Bu Vapor Density (Air=1) Specific Gravity: (Eth Solubility in Water: Si Log Pow (calculated) Autoignition Tempera	mal conditions of use. Prove sure occur as explained Set provided. If airborne conce DSH/MSHA approved resp g this product. Have an ey emical break-through and ly. Wash hands and other ing, and when leaving wor hPa at 20°C Ac=1): 3.3 :: 1.6 anol) 0.789 at 20 °C oluble :-0.32 iture: 363 C erature: No data available	vide general r ection 11. A entrations are biratory protec e wash statio replace at re exposed area k
Melting Point: 114 C Boiling Point: 79 C Flash Point: 17 C Flammable Limits in A	Air: (Ethanol) LEL: 3		Viscosity: No data ava Percent Volatile by Vo	ulable	
Boiling Point: 79 C Flash Point: 17 C Flammable Limits in A Section 10	Air: (Ethanol) LEL: 3	R	Viscosity: No data ava Percent Volatile by Vo Ceactivity Data	ulable blume: 95%	
Boiling Point: 79 C Flash Point: 17 C Flammable Limits in A	ls: sition Products:	Not generally reactive Stable under normal co Temperatures above th sparks, open flames, o	Viscosity: No data ava Percent Volatile by Vo Ceactivity Data under normal conditions onditions. he high flash point of this or other sources of ignitio	vilable plume: 95%	

48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/ 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L C50 DESMODESMUS SUBSPICATUS > 1000 MG/L

Disposal Information

Disposal Methods:

Waste Disposal Code(s)

Section 13

Dispose in accordance with all applicable Federal, State and Local regulations. contact a permitted waste disposer (TSD) to assure compliance. If discarded, this product is considered a RCRA ignitable waste, D001

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: UM1170 UN1170 Ethanol Solutions Ethanol Solutions Class 3 P.G. II Section 15 Regulatory Information TSCA Status: All components in this product are on the TSCA Inventory. Chemical Name CAS Number § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2) TQ Methanol 67-56-1 Methanol No 5000 lb final RQ: 2270 kg final RQ No No California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. Section 16 Additional Information Revised: 03/05/2013 Replaces: 02/26/2013 Printed: 03-08-2013 The information provided in this (Material) Safety Data Sheet representa to orguarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.					mation			
TSCA Status: All components in this product are on the TSCA Inventory. Chemical Name CAS Number § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2) TQ Methanol 67-56-1 Methanol No 5000 lb final RQ; 2270 kg final RQ No No California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. Section 16 Additional Information Revised: 03/05/2013 Replaces: 02/26/2013 Printed: 03-08-2013 The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or quarantee as a to the avialable to us. Carolina Biological Supply makes no representation or quarantee as a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or quarantee as a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or quarantee as a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or quarantee as a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or quarantee as a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or quarantee as the suplicable to us.	UN1170 Ethanol Solutions Class 3			UN1170 Ethanol Solutions Class 3				
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Mumber \$ 313 Name \$ 304 RQ CERCLA RQ \$ 302 TPQ CAA 112(2) TQ Methanol 67-56-1 Methanol No 5000 lb final RQ; 2270 kg final RQ No No California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. No No Section 16 Additional Information Printed: 03-08-2013 Printed: 03-08-2013 The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or quarantee as to the suitability of the with the field of the withe field of the withe field of the with the field of the with the	TSCA Status:	All components in this product are on the TSCA Inventory.						
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Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
CAS	Industrial Hygienists Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response.	PEL	Permissible Exposure Limit Parts per million
DOT	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
IARC	U.S. Department of Transportation International Agency for Research on Cancer	SARA TLV	Superfund Amendments and Reauthorization Ac Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Resource Conservation and Recovery Act
Superfund Amendments and Reauthorization Act
Threshold Limit Value
Theorem Linne Value

SECTIONS 12 through 15

identify ecological information, disposal considerations, transport information, and regulatory information. However, these environmental sections are not regulated or enforced by OSHA, therefore may not appear on all SDSs.

SECTION 16, Other Information, identifies the date of preparation or last revision of the SDS.





ILWU / PMA PACIFIC COAST MARINE SAFETY COMMITTEE

