Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form)

Form Approved

OMB No. 1218-0072



consumed for specific rode.				
IDENTITY (As Used on Label and List) (Denatured Alcohol) Rubbing Alcohol 70% Ethanol	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.			
Section I				
Manufacturer's Name	Emergency Telephone Number			
Humco Laboratory, Inc.	(800) 424-9300			
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information			
1008 Whitaker Street, Texarkana, TX 7	(800) 662-3435			
	Date Prepared September 16, 1991			
	Signature of Preparer (optional)			
	Signature of Frepare (optional)			
Section II — Hazardous Ingredients/Identity Inform	nation Other Limits			
Hazardous Components (Specific Chemical Identity; Common Nan				
the state of the s	1000 nnm System Depressant 59-2			
Lefty 1 7 tto Control of the control	PEL 1000 ppm Flammable/Irritant 5.0			
Acetone 67-64-1	• •			
TLV-TWA 750 ppm;	2)1 0			
Water 7732-18-5	Notice			
Methyl Isobutyl	Flammable/!rritant/			
	WA 100 ppm Narcotic 1.0			
TLV-TWA 50 ppm;S	STEL 75 ppm			
Bitrex (TM) 3734-33-6	None None Noted .0014			
(Denatomium Benzoate)				
Section III — Physical/Chemical Characteristics				
Boiling Point	Specific Gravity (H ₂ O = 1)			
173°F	0.875 @ 60°F			
Vapor Pressure (mm Hg.)	Melting Point			
44.6-mm Hg @ 68°F*	-173°F* Evaporation Rate			
Vapor Density (AIR = 1)	(Butyl Acetate = 1)			
1.59*				
Solubility in Water				
Complete				
Appearance and Odor Clear and colorless				
Section IV — Fire and Explosion Hazard Data	Flammable Limits % BY VOL. LEL UEL			
Flash Point (Method Used)	Lower-3.3*/Upper-19*			
56°F ASTM D-56 (Tag Closed Cup) Extinguishing Media: Note: Individuals should perfo	orm only those firefighting procedures for which they have been			
Special Fire Fighting Procedures: Use dry chemical, "alc should be used to keep fire-exposed containers co	ohol" foam, or carbon dioxide; water may be ineffective, but wate ol. If a leak or spill has not ignited, use water spray to dispe			
the vapors and to protect men attempting to stop	a leak. Water spray may be used to flush spills away from exposu PA-49 1975).			
	d wear self-contained breathing apparatus in the positive pressur			
	lity of exposure to smoke, fumes or hazardous decomposition			
products.				

Section V -	- Reactivity Data			
Stability	Unstable	Conditions to Avoid		The Control of the Co
	Stable Cenerally Stabl		l chloride and a	wide range of oxidizing agents may react
	(Materials to Avoid)			
Acetyl chl	oride omposition or Byprodu	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Carbon mon	loxide can form on	incomplete combustion.		
Hazardous Polymerization	May Occur	Conditions to Avoid		
Not Likely	Will Not Occur			
Section VI -	- Health Hazard	Data		
Route(s) of Enti	ry: Inhal Ye	ation?	Skin? Yes	Ingestion? Yes
lose of appe	tite and inabilit	v to concentrate. Icrita	<u>tion of the throa</u> ct: Liquid or va	ey cause headache, drowsiness and lassitude, t. Ingestion: Can cause depression of centropor may cause irritation. Skin contact: May
Carcinogenicity	NTP	?	IARC Monographs	? OSHA Regulated?
		reuse. GET MEDICAL ATTEN		
Section VII	- Precautions to	or Safe Handling and Use	e - noropriate respir	ratory protection and protective clothing.
Contain cai	llad material. It	ansfer to secure containe	ers. Where necess	sary, correct using absorbent media. In
the event of	f an uncontrolled aws and regulation	release of this material,	, the user should	determine if the release is reportable under
Waste Disposa	ed material should	l be packaged, labeled, tr	ansported, and di	sposed or reclaimed in conformance with
applicable	laws and regulation	ons and in conformance wit	th good engineerin	ng practices.
Precautions to	Be Taken in Handling	and Storing	•	·
See Section	XI on page 3.			
Other Precaution	ons: al Precautions: A	lvoid uncontrolled release	es of this materia	l. Where spills are possible, a
comprehensi	ve spill response	plan should be developed	and implemented.	
Section VII	I - Control Meas	ures		
Respiratory Pro	otection (Specify Type):	Where exposure is likel	y to exceed accept	table criteria use NIOSH/MSHA approved to
nant in air	r and in accordance	e with OSHA (29 CFK 1910.	134). hina which are in	d on the form and concentration of contami- impervious to this product for the duration
	11	here is potential for ski the presence of adequate plasses meeting the spec	VARTILATION	Standard Z87.1 where no contact with the
	iningted Chemica	l safety coordes meeting	the specification	s of ANSI Standard 787.1 should be worn
whenever th	here is the possib	ility of splashing or other	er contact with the	he eyes. ignition sources. Vapor may form flammable. e body tissues. Use with adequate ventilation
mixtures wi Avoid breat	ith air. may be n thing vapor. Do n	ot get in eyes, on skin,	on clothing. Wash	thoroughly after handling.

Material Safety Data Sheet (cont.)

Humco Laboratory, Inc. P.O. Box 2550 Texarkana, TX 75504

(800) 662-3435 for information (800) 424-9300 for emergency

Rubbing Alcohol 70% Ethanol Completely Denatured Alcohol

	Completely I have beld limit Value). Mixture See Section II
Section IX	Occupational Exposure Limits: TLV (ACCIH Threshhold Limit Value): Mixture See Section II PEL (OSHA Permissible Exposure Limit): Mixture See Section II
	PEL (OSHA Permissible Exposure Ethic)
Section X	Regulatory Controls Department of Transportation: Flormable Liquid
	TOOT Classification
	Chinaine Name: Departured ALCOHOL
	Emergency Response data No. 20
	Other Regulatory Requirements: ATF Distilled Spirits Act: The use of denatured alcohol is controlled by regulations which are
	ATE Distilled Spirits Act: The use of dendences of Title 27 Code of Federal Regulation
	ATF Distilled Spirits Act: The use of denatured alconor is controlled by regulation defined by the Bureau of Alcohol, Tobacco, and Firearms in Title 27 Code of Federal Regulation defined by the Bureau of Alcohol, Tobacco, and Firearms in Title 27 Code of Federal Regulation defined by the Bureau of Alcohol, Tobacco, and Firearms in Title 27 Code of Federal Regulation
	Toxic Substance Control Act: This product is fisted in the 1944
Section X1	Precautions: Handling, Storage and Usage Precautions: Handling, Storage and Usage Detached or outside storage is preferred. Inside
	Precautions: Handling, Storage and Usage Protect container against physical damage. Detached or outside storage is preferred. Inside Protect container against physical damage. Detached or outside storage room or cabinet. All ignition storage should be in an NFPA approved flammable liquids storage room or cabinet. All ignition storage should be in an NFPA approved flammable liquids storage areas. Electrical instal-
	storage should be in an NFPA approved flammable liquids storage found of cabinets. Storage should be eliminated. Smoking should be prohibited in storage areas. Electrical instalsources should be eliminated. Smoking should be prohibited in storage areas. Electrical instalsources should be eliminated. Smoking should be prohibited in storage areas. Electrical instalsources should be eliminated. Smoking should be prohibited in storage areas. Electrical instalsources should be eliminated. Smoking should be prohibited in storage areas. Electrical instalsources should be eliminated.
	sources should be eliminated. Smoking should be promibited in Storage and handling. Frequent
	lations should be in accordance with Article 501 of the National Electrical cook. Mind of Lations should be in accordance with Article 501 of the National Electrical cook. Mind of Lations should be in accordance with Article 501 of the National Electrical cook. Mind of Lational
	Flammable and Combustible Liquids Code, should be followed for all storage and inspection. Isolat careful leakage inspection should be done. Automatic sprinkler system should be provided. Isolat careful leakage inspection should be done. Automatic sprinkler system should be provided. Isolat
	careful leakage inspection should be done. Automatic sprinkler system should be careful leakage inspection should be done. Automatic sprinkler system should be careful leakage inspection should be done. Automatic sprinkler system should be sprinkler system.
	from oxidizers, chemicals capable of spontaneous heating, materials reacting mich different from oxidizers, chemicals capable of spontaneous heating, materials reacting mich different from oxidizers, chemicals capable of spontaneous heating, materials reacting mich different from oxidizers, chemicals capable of spontaneous heating, materials reacting mich different from oxidizers, chemicals capable of spontaneous heating, materials reacting mich different from oxidizers, chemicals capable of spontaneous heating, materials reacting mich different from oxidizers, chemicals capable of spontaneous heating, materials reacting mich different from oxidizers.
	information.
	information. When contents are being transferred, the metallic container must be bonded to the receiving container and grounded to avoid static discharges. Never use pressure to empty. Replace closure
	container and grounded to avoid static discillances. Never use process
	securely after each opening. Keep packaged material out of sun and away from heat. Remove closure carefully; internal
	Keep packaged material out of sun and and and in heat. Remove the sun and and and in heat the sun and
	Reep packaged material out of sun and they result leakage. pressure may be present. Keep closure up to prevent leakage. Containers hazardous when emptied. Since emptied containers retain residual product (vapor or containers hazardous when emptied on this MSDS must be observed.
	Containers hazardous when emptied. Since emptied containers liquid), all precautions described on this MSDS must be observed.
	For industrial use only. Not for household use.
	For industrial use only. Heave
	to be factual as it has been derived from the works
	The information presented herein is believed to be factual as it has been derived from the works
	and opinions of persons believed to be qualified experts; however, nothing contained in this
	and opinions of persons betteved to be queries
	information is to be taken as a warranty or representation for which National Distillers and
	information is to be concerned tions in
	Chemical Corporation bears legal responsibility. The user should review any recommendations in
	the specific context of the intended use to determine whether they are appropriate.
	the specific context of the intended dos do so
	Date:
	Prepared by: