MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

Manufactured For: Hillyard Industries, Inc. DOT I Address: 302 N. 4 th Street DOT I Address: St. Joseph, MO 64501 Identi Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com MSDS D.O.T. Emergency Response Number: Chemtrec 1-800-424-9300 Date F NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA Information SECTION 1 - MATERIAL IDENTIF COMPONENTS-CHEMICAL NAMES AND COMMON NAMES Hazardous Components 1% or greater; Carcinogens 0.1% or greater) ISOBUTANE/PROPANE BLEND	Rating: Hazard Haz Cla ity (trade S Numk Prepare hation Cal FICATIO	Health-2; Flamm Classification ssification(pret name as used or FOAMING Der: A00806 d: 10/25/07 ls: (770)422-207 N AND INFOR	ability-1; (post trans ransition): a label): a BASEB Part# HIL	sition): LIM	TED QUAN r Commodi IPPER 16a	ΤΙΤΥ
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Hazardous Components 1% or greater; Carcinogens 0.1% or greater) ISOBUTANE/PROPANE BLEND ISOPROPANOL					ACGIH	Oraciaraa
ISOBUTANE/PROPANE BLEND ISOPROPANOL		CAS Number	SARA III LIST	OSHA PEL (ppm)	TLV (ppm)	Carcinogen Ref. Source **
ISOPROPANOL		75-28-5	No	NE	NE	d d
		74-98-6	No	1000	1000	d
		67-63-0	No	400	400	d
ETHYLENE GLYCOL MONOBUTYL ETHER * (*GLYCOL ETHER)						
		111-76-2	Yes	50	20	d
MONOETHANOLAMINE		141-43-5	No	3	3	d
ETHANOL		64-17-5	No	1000	1000	d
SECTION 2 - PHYSICAL/CHEN						
		Gravity (H2O=1):				
	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A					
	Evaporation Rate (BuAc = 1): Slower					
	Vater Rea	active: No				
Appearance and Odor: White foam spray, with amine / alcohol odor.						
SECTION 3 - FIRE AND EXP						
	Auto Ignition Temperature Flammability Limits in Air by % in Volume:					
aerosols): extinguishes flame. CPSC: NOT CATEGORIZED AS	N/E % LEL: N/E % UEL: N/E				.: N/E	
FLAMMABLE FLASH POINT AND METHOD USED (non-aerosols): N/A	EXTINGUISHER MEDIA: Foam, dr					
FLASH POINT AND METHOD USED (non-aerosols): N/A SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to keep containers co	ool Solf a	ontained breathin	a opporet		l, carbon diox	
Jnusual Fire & Explosion Hazards: Do not expose aerosols to temperatures abo						iue, water.
Section 4 - REACTIV			παγ τυριυ	ie.		
		DUS POLYMERIZ		1 WILL [X] WILL NOT	OCCUR
ncompatibility (Mat. to avoid): Strong organic acids, strong mineral acids, alkali						UCCUR
netals, copper.	onunion	s to Avoid. Open	name, we	sound arcs, ne	a.	
Hazardous Decomposition Products: CO, CO2, various oxides of carbon, nitroge	en compo	ounds.				
SECTION 5 - HEALT						
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTIC		SKIN ABSOR	PTION	[X]EYE		AZARDOUS
ACUTE EFFECTS:						12/11/2000
nhalation: Excessive inhalation of vapors can be harmful & may cause headache,	dizzinos	e aenhuvia anos	thatic offa	cte & possible	unconscious	0000
Eye Contact: Irritant. Burning and redness. Skin Contact: Irritar						
dermatitus.	111. 1 10101	riged of repeated			esulting in ary	
ngestion: ASPIRATION HAZARD. Possible chemical pneumonitis if aspirated into	to lunas. N	Nausea, diarrhea.				
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of the			al and res	piratory irritat	on. diarrhea.	vomiting. Lab
animals have experienced anemia, liver, kidney, lung, blood damage to ethylene glycol monobutyl ether.						
Medical Conditions Generally Aggravated by Exposure: May aggravate existing			atory cond	litions.		
EMERGENCY FIRST						
Eye Contact: Flush with water for 15 minutes, followed by a 1% saline so			nues se	ek medical a	attention	
Skin Contact: Wash affected area with soap & water. If irritated, seek me						er hefore
	cuicai di		C CONIC		ing a lauriu	
euse.	attontic	2				
nhalation: Remove to fresh air. Resuscitate if necessary. Get medical			ont:			
ngestion: DO NOT INDUCE VOMITING. ASPIRATION HAZARD. Ge						
SECTION 6 - CONTROL AND						
					ive pressure	mode.
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use re	Vo Proto	ction: Safety glas	ses recor	nmended.		
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use re Protective Gloves: Rubber gloves recommended.						
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use re Protective Gloves: Rubber gloves recommended. /entilation Requirements: Adequate ventilation to keep vapor concentration below						
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use re Protective Gloves: Rubber gloves recommended. /entilation Requirements: Adequate ventilation to keep vapor concentration below Dther Protective Clothing & Equipment: None						
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use reprotective Gloves: Rubber gloves recommended. E Protective Gloves: Rubber gloves recommended. E /entilation Requirements: Adequate ventilation to keep vapor concentration below Dther Protective Clothing & Equipment: None Hygienic Work Practices: Wash with soap and water before handling food. E	w TLV.		ID			
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use reprotective Gloves: Rubber gloves recommended. E Protective Gloves: Rubber gloves recommended. E /entilation Requirements: Adequate ventilation to keep vapor concentration below Dther Protective Clothing & Equipment: None Hygienic Work Practices: Wash with soap and water before handling food. SECTION 7 - PRECAUTIONS FOR	R SAFE					
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use reprotective Gloves: Rubber gloves recommended. E Protective Gloves: Rubber gloves recommended. E /entilation Requirements: Adequate ventilation to keep vapor concentration below E Other Protective Clothing & Equipment: None None Hygienic Work Practices: Wash with soap and water before handling food. SECTION 7 - PRECAUTIONS FOI Steps To Be Taken If Material Is Spilled Or Released: Absorb spilled liquid with	R SAFE			rum for proper	disposal. Ind	cinerate or
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use reprotective Gloves: Rubber gloves recommended. E Protective Gloves: Rubber gloves recommended. E /entilation Requirements: Adequate ventilation to keep vapor concentration below E Other Protective Clothing & Equipment: None None Hygienic Work Practices: Wash with soap and water before handling food. SECTION 7 - PRECAUTIONS FOI Steps To Be Taken If Material Is Spilled Or Released: Absorb spilled liquid with andfill according to local, state or Federal regulations. Small spills can be flushed to the state or federal regulations.	R SAFE suitable to sewer.	medium. Place ir	n closed d		disposal. Inc	cinerate or
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use reprotective Gloves: Rubber gloves recommended. E Protective Gloves: Rubber gloves recommended. E /entilation Requirements: Adequate ventilation to keep vapor concentration below E Other Protective Clothing & Equipment: None None Hygienic Work Practices: Wash with soap and water before handling food. SECTION 7 - PRECAUTIONS FOI Steps To Be Taken If Material Is Spilled Or Released: Absorb spilled liquid with andfill according to local, state or Federal regulations. Small spills can be flushed to Naste Disposal Methods: Aerosol cans when vented to atmospheric pressure three	R SAFE suitable to sewer. rough nor	medium. Place ir mal use pose no o	n closed di disposal h	azard.		cinerate or
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use reprotective Gloves: Rubber gloves recommended. E Protective Gloves: Rubber gloves recommended. E /entilation Requirements: Adequate ventilation to keep vapor concentration below E Other Protective Clothing & Equipment: None None Hygienic Work Practices: Wash with soap and water before handling food. Section 7 - PRECAUTIONS FOI Steps To Be Taken If Material Is Spilled Or Released: Absorb spilled liquid with andfill according to local, state or Federal regulations. Small spills can be flushed to Naste Disposal Methods: Aerosol cans when vented to atmospheric pressure three Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate	R SAFE a suitable to sewer. rough nor containe	medium. Place ir mal use pose no o rs. Do not store a	n closed di disposal h it tempera	azard. tures above 1	30°F.	cinerate or
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use reprotective Gloves: Rubber gloves recommended. E Protective Gloves: Rubber gloves recommended. E /entilation Requirements: Adequate ventilation to keep vapor concentration below E Other Protective Clothing & Equipment: None None Hygienic Work Practices: Wash with soap and water before handling food. SECTION 7 - PRECAUTIONS FOI Steps To Be Taken If Material Is Spilled Or Released: Absorb spilled liquid with andfill according to local, state or Federal regulations. Small spills can be flushed to Naste Disposal Methods: Aerosol cans when vented to atmospheric pressure three	R SAFE a suitable to sewer. rough nor containe N. Avoid	medium. Place ir mal use pose no o rs. Do not store a food contaminatio	disposal h t tempera n. Avoid ii	azard. tures above 1 nhalation of va	30°F. apors.	