

FROM : Rock Paint Dist. Corp.

PHONE NO. : 6088686233

CHEM CENTRAL MILWAUKEE

Feb. 06 2001 03:21PM P4

* Blick Acrylic Med. Remover *

00623-1006

Recd 02-06-01

MATERIAL SAFETY DATA SHEET

FEB 26 1999

ISOPROPYL ALCOHOL (99%)

MSDS No 200002-001-03HA-AE
Ver. No 3
Ver. Date DEC 7 98

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to the employees, customers, and users of this product. This product is covered by the OSHA Hazard Communication Rule and this document has been prepared in accord with the MSDS requirements of this rule.



Lyondell Chemical Worldwide, Inc.
One Houston Center
1221 McKinney Street
Houston, TX 77101

1. General

Trade Name	ISOPROPYL ALCOHOL (99%)		Telephone Numbers:
Other Company Names	None	EMERGENCY	(800) 424-8300 CHEMTREC
Synonyms	None	(810) 353-8300	LYONDELL
Other Industry Names	IPA; Isopropanol; Dimethyl Carbinol		CUSTOMER SERVICE
Chemical Family	C3 Alcohol		(800) 321-7000
Generic Name	2-Propanol		INFO ONLY
DOT Hazardous Material Proper Shipping Name	Isopropanol		
DOT Hazard Class	DOT Packing Group	DOT Reportable Quantity	UN/NA ID No.
3 (flammable liquid)	II	(Based on Material) Not applicable	UN 1219
CAS No. (See Section 9 - Components)	Company Material ID	MSDS Class	
	BE104	P	

2. Summary of Hazards

Signal Word	DANGER
Physical Hazards	Extremely flammable liquid
Acute Health Effects (Short-Term)	Slight inhalation hazard Severe eye irritant Slight ingestion hazard No skin irritation hazard identified from data available No skin absorption hazard identified from data available
Chronic Health Effects (Long-Term)	Repeated or prolonged exposure to isopropanol can be irritating to mucosal membranes

3. Fire and Explosion

Flash Point	Auto ignition Temperature	Flammable Limits
AP 63°F (TCC)	AP 7-30°F	(at Normal Atmospheric Temp and Pressure) Lower: AP 2 (% vol in air) Upper: AP 12.7 (% vol in air)
Fire and Explosion Hazards	Releases flammable vapors below normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Diluting with water may not suffice to raise flash point above ambient temperatures.	
Extinguishing Media	Alcohol type foam CO ₂ Dry chemical Water spray Water fog	
Extinguishing Media Use Comment	No additional information available	

V-1888

Lyondell Chemical Worldwide, Inc. is a wholly owned subsidiary of Lyondell Chemical Company

SEQM

FROM: Rock Paint Dist. Corp.

PHONE NO.: 6086662333
CHEMUNICALS@LYONDELL

Feb. 26 2001 03:20PM PST
12:00:12



ISOPROPYL ALCOHOL (99%)

MSDS No.
P000000001-OSHAA-2
Ver. No. 3
Ver. Date DEC 7 99

3. Fire and Explosion (Cont'd)

Special Firefighting Procedures Do not enter fire area without proper protection. Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Water may be ineffective in firefighting due to low flash point. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water. Even if material is water soluble, may not be practical to extinguish fire by water dilution. Notify authorities immediately if liquid enters sewer/public waters.

4. Health Hazards

Summary of Acute Hazards	Moderate health hazard	
ROUTE OF EXPOSURE	SIGNS AND SYMPTOMS	PRIMARY ROUTE(S)
Inhalation	Prolonged overexposure may cause coughing, shortness of breath, dizziness and intoxication.	Yes
Eye Contact	May cause severe eye irritation.	Yes
Skin Absorption	No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin absorption exposure.	No
Skin Irritation	No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of skin exposure.	No
Ingestion	This material may be a slight health hazard if ingested in large quantities.	No
Summary of Chronic Hazards	Repeated or prolonged exposure may irritate the mucous membranes. (See additional Toxicology Information elsewhere in this document).	
Special Health Effects	This material or its emissions may affect mucous tissue and/or aggravate mucous membrane dysfunction.	

5. Protective Equipment and Other Control Measures

Respiratory	If exposure exceeds the Personal Exposure Limit (PEL)/Threshold Limit Value (TLV), use National Administration for Occupational Safety and Health (NIOSH)/Mine Safety and Health Administration (MSHA) approved respiratory equipment as specified in the National Administration for Occupational Safety and Health (NIOSH)/Occupational Safety and Health Administration (OSHA) 1914 Occupational Health Guidelines for Chemical Hazards.
Eye	Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or vapor. Contact lenses must not be worn.
Skin	Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, and when leaving work.
Engineering Controls	No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.
Other Hygienic Practices	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Shower after work using plenty of soap and water.

6. Occupational Exposure Limits

Substance	Source	Date	Type	Value/Units	Time	Skin
Isopropyl Alcohol	ACGIH	1992	TWA	400 ppm	8 HRS	No
	ACGIH	1992	STEL	300 ppm	15 MIN	No
	OSHA	1989	TWA	400 ppm	8 HRS	No
	OSHA	1989	STEL	500 ppm	15 MIN	No

Exposure Limit Comments No additional Occupational Exposure Limit information available

FROM: Rock Paint Dist. Corp. PHONE NO.: 6086666233
 CHEMURGICAL, MILWAUKEE, WI

Feb. 06 2001 03:19PM P2
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ISOPROPYL ALCOHOL (99%)

MSDS No.
 PRODUCT 001-035-000
 Ver. No. 3
 Ver. Date DEC 7 99

Emergency and First Aid

Inhalation	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
Eye Contact	In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.
Skin Contact	Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first.
Ingestion	If large quantity swallowed, give lukewarm water (pint/ 1/2 litre) if victim completely conscious/alert. DO NOT INDUCE VOMITING. Risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.
Physician's Emergency Medical Treatment Procedures	If pain, blinking, tears, or redness continue, patient should contact ophthalmologist.
Physician's Detoxification Procedures	Do not induce vomiting. Administer an aqueous slurry of activated charcoal followed by a cathartic such as magnesium citrate or sorbitol.

B. Spill and Disposal

Precautions if Material is Spilled or Released
 Extremely flammable liquid. Release causes immediate fire/explosion hazard. Liquids/vapors may ignite. Evacuate/limit access. Equip responders with proper protection. Extinguish all ignition sources. Stop release. Prevent flow to sewer/subsoil waters. Retain water use for cleanup. Notify fire and environmental authorities. Impound/recover large land spill. Blanket with firefighting foam. Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. May biodegrade. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

Waste Disposal Methods
 Contaminated product/soil/water may be U.S. Resource Conservation and Recovery Act (RCRA)/U.S. Occupational Safety and Health Administration (OSHA) hazardous waste due to potentially low flash point. (See 40 U.S. Code of Federal Regulations (CFR) 261 and 29 CFR 1910). Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids in systems compatible with water-soluble wastes. Avoid flame-outs. Assure emissions comply with applicable regulations. Dilute aqueous wastes may biodegrade. Avoid overloading/poisoning plant biomass. Assure effluent complies with applicable regulations.

C. Composition

(This may not be a complete list of components.) (Compositions given are typical values, not specifications.)

Component Name	CAS No.	Composition Amount (Wt. %)	Carcinogen #/NF
Isopropyl Alcohol	67-63-0	AP 99 %	NF

#1=U.S. National Toxicological Program 2=International Agency for Research on Cancer 3=U.S. Occupational Health and Safety Administration 4=American Conference of Governmental Industrial Hygienists 9=Other NF=No Applicable Information Found

10. Component Health Hazards

Component	Component Health Hazards
Isopropyl Alcohol	Damages developing fetus Mucous membrane irritant Severe eye irritant

11. Additional Toxicological Information

Component Name/Comments
 Isopropyl Alcohol
 Isopropyl alcohol, when given to pregnant rats has been reported in one study to be toxic to the developing fetus at levels of 2.5% in drinking water. No teratogenic effects were, or have been, reported. There are no reports of adverse reproductive effects in humans exposed to this chemical.

Material
 No additional toxicology information is available for this material.

FRGM - Rock Paint Dist. Corp. PHONE NO. : 6088686233
 CHEMICAL CENTRAL MILWAUKEE

Feb. 06 2001 23:18PM P1
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ISOPROPYL ALCOHOL (99%)

MSDS No.
 P000002-001-OSHALL
 Ver. No 3
 Ver. Date DEC 7 90

Physical and Chemical Data

Boiling Point AP 180°F	Viscosity No Data Available	Dry Point Not applicable
Freezing Point AP -127°F	Vapor Pressure AP 33 mm Hg (at 62°F)	Volatil Characteristics Appreciable
Specific Gravity AP .78 at 68°F (H ₂ O = 1.0 at 39.2°F)	Vapor Specific Gravity AP 2.1 (Air = 1.0 at 60-90°F)	Solubility in Water Complete (In All Proportions)
pH Not applicable	Hazardous Polymerization Not expected to occur	Stability Stable
Other Chemical Reactivity	No additional information available	
Other Physical and Chemical Properties	No additional information available	
Appearance and Odor	Liquid; Medicinal odor analogous to rubbing alcohol; Odor threshold: AP 200 PPM; Clear, colorless	
Conditions to Avoid	Heat, sparks, open flame, other ignition sources, and oxidizing conditions	
Materials to Avoid	Aluminum metals, NITROFORM, Strong oxidizing agents, Sulfuric acid	
Hazardous Decomposition Products	Incomplete combustion may produce carbon monoxide and other toxic gases	

13. Hazard Rating Information

National Fire Protection Association
 Health = 1 Flammability = 3 Reactivity = 0
 National Paint and Coatings Association
 Hazardous Material Information System (HMIS)
 Health = 1 Flammability = 3 Reactivity = 0 Personal Protection = X

14. Additional Precautions

Handling and Storage Procedures
 Store only in tightly closed, properly vented container away from heat, sparks, open flame and strong oxidizing agents. Use only non-sparking tools. Store closed drums with bung in up position. Carefully vent any internal pressure before removing closure. Containers must be properly grounded before beginning transfer. All equipment must conform to applicable electrical code. Handle empty containers with care; vapor residue may be flammable/explosive. Material may attack some forms of plastic, aluminum, rubber and coatings.

Decontamination Procedures
 Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Remove all ignition sources. Check atmosphere for explosiveness and oxygen deficiencies. Wear recommended personal protective equipment. Observe precautions pertaining to confined space entry.

LYONDELL CHEMICAL CORP. PHONE NO. : 6086666233
 CHEMICAL DIVISION

Feb. 06 2001 03:16PM P4
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ISOPROPYL ALCOHOL (99%)

MSDS No
 P000003-001-03M-AE
 Ver No 3
 Ver Date DEC 7 93

Regulatory Information

Federal

Toxic Substance Control Act (TSCA)

The following is the Toxic Substances Control Act (TSCA) Chemical Substance Inventory Status of the components of this material listed in Section 9 - Components:

CHEMICAL	CAS NO.	STATUS
Isopropyl Alcohol	67-63-0	Listed - Non Confidential

Superfund Amendments and Reauthorization of 1988 (SARA), Title III
 -Section 302/304

Requires emergency planning based on Threshold Planning Quantities (TPQs), and release reporting based on Reportable Quantities (RQs) of 'Extremely Hazardous Substances' (EHS) listed in Appendix A of 40 CFR 365. There are no components of this material with known CAS numbers which are on the EHS list.

-Section 311 & 312
 Based upon available information, this material and/or components are classified as the following health and/or physical hazards according to Section 311 & 312:

- Immediate (Acute) Health Hazard
- Fire Hazard

-Section 313

The material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels established by SARA Title III, Section 313 and 40 CFR 372.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

OSHA Regulations

'Chemical-specific' U.S. Occupational Safety and Health Administration (OSHA) regulations (1910.1002 to 1910.1050) presented under 29 U.S. Code of Federal Regulations (CFR) 1910 do not apply to this material or its components.

Other EPA Regulations

No additional information available

Department of Transportation (DOT)

Other than the normal shipping instructions and information given in this MSDS, there are no other specific U.S. Department of Transportation (DOT) regulations governing the shipment of this material.

State Regulations:

California Safe Drinking Water and Toxic Enforcement Act of 1988 - Proposition 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

California South Coast Air Quality Management District (SCAQMD) Rule 403.1 (VOC's)

A Volatile Organic Compound (VOC) is any volatile compound of carbon excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, 1,1,1-trichloroethane, methylene chloride, (FC-23), (CFC-113), (CFC-12), (CFC-11), (CFC-22), (CFC-114), and (CFC-115). By this definition, this is a VOC material.

Massachusetts Right to Know Substance List (RISL) [106 CMR 670.006]

Hazardous Substances (MSL-HS) on the MSL must be identified when present in materials at levels greater than state specified criterion. The criterion is: >= 1%. Components with CAS numbers present in this material at a level which could require reporting under the statute are:

CHEMICAL	CAS NO.
Isopropyl Alcohol	67-63-0

... must be identified when present in materials at levels greater than state specified ... do not

FROM: Rock Paint Dist. Corp. PHONE NO. : 6088686233
FAX 202 354 4334
CENTRAL OFFICES

Feb. 06 2001 03:15PM P3



ISOPROPYL ALCOHOL (99%)

MSDS No.
#000003-001-05/04/06
Ver. No. 3
Rev. Date DEC 7 99

15. Regulatory Information (Cont'd)

Pennsylvania Right to Know Hazardous Substance List

Environmental Hazards (PA-EH) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers in this material at a level which could require reporting under the statute are:

CHEMICAL	CAS NO.
Isopropyl Alcohol	67-63-0

Hazardous Substances (PA-HS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 1\%$. Components with CAS numbers in this material at a level which could require reporting under the statute are:

CHEMICAL	CAS NO.
Isopropyl Alcohol	67-63-0

Special Hazardous Substances (PA-SHS) must be identified when present in materials at levels greater than the state specified criterion. The criterion is $\geq 0.01\%$. Components with CAS numbers present in this material, at levels specified in Section 9 - Components, do not require reporting under the statute.

Regulatory Advisory
If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in this sheet.

FROM : Rock Paint Dist. Corp.
 03-06-01 TUE 10:02 FAX 262-344-4332

PHONE NO. : 6088686233
 CHEM CENTRAL MILWAUKEE

Feb. 06 2001 03:15PM P2
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ISOPROPYL ALCOHOL (99%)

MSDS No
 P000002-001-OSHA-AE
 Ver No 3
 Ver Date DEC 7 98

Source Lyondell Chemical Worldwide, Inc. One Houston Center 1221 McKinney Street Houston, TX 77001		Telephone Numbers: EMERGENCY (800) 424-9300 CHEMTREC (810) 359-8300 LYONDELL CUSTOMER SERVICE (800) 321-7000 INFO ONLY	
Other Company Names None Use Statement For industrial use only Keep out of reach of children!	Signal Word DANGER		
Physical Hazards Extremely flammable	Health Hazards Severe eye irritant Irritation hazard Ingestion hazard Prolonged exposure may affect mucous membranes.		
Precautionary Measures Do not handle near heat, sparks, or open flame Do not store near combustible materials Avoid contact with eyes Avoid prolonged or repeated breathing of gases, vapors, or mists Use with adequate ventilation Prevent contact with food, chewing, or smoking materials Do not take internally Keep container tightly closed when not in use Do not store this material in aluminum containers			
DOT Information: UN/NA ID No. UN 1210 DOT Hazard Class 3 (Flammable Liquid) DOT Hazardous Material Proper Shipping Name Isopropyl alcohol	DOT Packing Group II	DOT RC (Based on Material) Not applicable	
Component Name Isopropyl Alcohol	CAS No. 67-63-0	Composition Amount (wt %) AP 99 %	RC Not applicable
Instructions: In case of fire, use: Alcohol type foam; CO ₂ ; Dry chemical; Water spray; Water fog			
First Aid: Inhalation	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.		
Eye Contact	In case of eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention.		
Skin Contact	Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleanser if first.		
Ingestion	If large quantity swallowed, give lukewarm water (1 pint / 2 liter) if victim completely conscious/alert. DO NOT INDUCE VOMITING. Risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.		
In case of spill: Extremely flammable liquid. Release causes immediate fire/explosion hazard. Extinguish all ignition sources. Impound/recover large land spill; soak up small spill with inert solids. On water, may biodegrade. Contain/collect rapidly to minimize dispersion. Report per regulatory requirements.			
Protective Equipment			
Respiratory	Use only U.S. National Institute for Occupational Safety and Health (NIOSH)/U.S. Mine Safety and Health Administration (MSHA) approved respiratory protection equipment per 1981 NIOSH/U.S. Occupational Safety and Health Administration (OSHA) Guidelines for Chemical Hazards.		
Eye	Chemical splash goggles and/or face shield should be worn.		
Skin	No special clothing normally required. Where use can result in skin contact, wash thoroughly before eating, drinking, smoking, or leaving work.		
Label No.: LP000002	Version No.: 2	Date: 1 January 1990	