Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL **SDS ID: 82405**

* * * Section 1 - Identification * * *

Product Identifier

SAFETY-KLEEN ISOPROPYL ALCOHOL

Product Code

1021802, 1024802

Synonyms

Isopropanol

Recommended Use

Solvent for reduction, chemical intermediates, and a drying agent.

Restrictions on Use

If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

Manufacturer Information

Safety-Kleen Systems, Inc.
2600 North Central Expressway
Suite 200
Richardson, TX 75080

Phone: 1-800-669-5740
www.safety-kleen.com

Emergency # 1-800-468-1760

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August, 1982

* * * Section 2 - Hazard(s) Identification * * *

Classification in Accordance with 29 CFR 1910.1200.

Flammable Liquids, Category 2
Acute Toxicity (Oral), Category 4
Eye Damage / Irritation, Category 2A
Toxic to Reproduction, Category 1B
Specific Target Organ Toxicity - Single Exposure, Category 1 (central nervous system, retina, kidneys, and systemic toxicity)
Specific Target Organ Toxicity - Single Exposure, Category 3 (central nervous system and respiratory system)
Specific Target Organ Toxicity - Repeated Exposure, Category 1 (central nervous system, liver, and retina)
Specific Target Organ Toxicity - Repeated Exposure, Category 2 (blood, spleen, and cardiovascular system)
Hazardous to the aquatic environment - acute hazard, Category 3

GHS LABEL ELEMENTS

Symbol(s)

Signal Word

DANGER!

Hazard Statement(s)

Highly flammable liquid and vapor
Harmful if swallowed
Causes serious eye irritation
May damage fertility or the unborn child

Causes damage to central nervous system, retina, kidneys, and systemic toxicity.
May cause respiratory irritation. May cause drowsiness or dizziness.
Causes damage to central nervous system, liver, and retina through prolonged or repeated exposure.
May cause damage to blood, spleen, and cardiovascular system through prolonged or repeated exposure.
Harmful to aquatic life

Precautionary Statement(s)

Prevention

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Do not breathe vapor or mist. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response

In case of fire: Use carbon dioxide, alcohol resistant foam, regular dry chemical, water spray, and water fog for extinction. IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Storage

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal

Dispose of in accordance with all applicable federal, state and local regulations.

Hazard(s) Not Otherwise Classified

None known.

* * * Section 3 - Composition / Information on Ingredients * * *

CAS	Component	Percent
67-63-0	Isopropyl alcohol	86-98
64-17-5	Ethyl alcohol	0-2
67-56-1	Methyl alcohol	0-2
71-23-8	n-Propyl alcohol	0-2
108-88-3	Toluene	0-1
1330-20-7	Xylenes (o-, m-, p- isomers)	0-1

* * * Section 4 - First Aid Measures * * *

Description of Necessary Measures

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, keep head lower than hips to help prevent aspiration. Call a poison control center or doctor immediately for treatment advice.

Most Important Symptoms/Effects

Acute

Harmful if swallowed, severe eye irritation, respiratory tract irritation, central nervous system depression, central nervous system damage, eye damage, blindness, kidney damage, systemic toxicity

Delayed

Reproductive effects, central nervous system damage, kidney damage, eye damage, blindness, blood damage, liver damage, spleen damage, cardiovascular system damage

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

* * * Section 5 - Fire-Fighting Measures * * *

Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor Avoid friction, static electricity and sparks. Product may be sensitive to static discharge, which could result in fire or explosion. Vapors may form explosive mixture with air. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Vapors may cause drowsiness and dizziness. Fire may produce irritating, poisonous and/or corrosive fumes. Runoff may create fire or explosion hazard. Containers may rupture or explode. Empty containers may contain product residue.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic., Burning may produce carbon dioxide, carbon monoxide, and unidentified organic compounds.

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire-fighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Keep storage containers cool with water spray. Move container from fire area if it can be done without risk. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Stay upwind and keep out of low areas. Dike for later disposal.

NFPA Ratings: Health: 2 **Fire:** 3 **Reactivity:** 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * Section 6 - Accidental Release Measures * * *

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal. There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product. Also see **SECTION 15: REGULATORY INFORMATION.**

* * * Section 7 - Handling and Storage * * *

Precautions for Safe Handling

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using this product. Wash thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Keep container tightly closed. Keep cool. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Empty product containers may retain product residue and can be dangerous. Store in a well-ventilated place. Store locked up.
See SECTION 14: TRANSPORT INFORMATION for packing group information.

Incompatibilities

combustible materials, acids, alkalis, oxidizing materials, halogens, metals, metal salts

* * * Section 8 - Exposure Controls / Personal Protection * * *

Component Exposure Limits

Isopropyl alcohol (67-63-0)

ACGIH:	200 ppm TWA
	400 ppm STEL
OSHA Final:	400 ppm TWA; 980 mg/m3 TWA
OSHA Vacated:	400 ppm TWA; 980 mg/m3 TWA
	500 ppm STEL; 1225 mg/m3 STEL
NIOSH:	400 ppm TWA; 980 mg/m3 TWA
	500 ppm STEL; 1225 mg/m3 STEL

Methyl alcohol (67-56-1)

ACGIH:	200 ppm TWA
	250 ppm STEL
	Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA Final:	200 ppm TWA; 260 mg/m3 TWA
OSHA Vacated:	200 ppm TWA; 260 mg/m3 TWA
	250 ppm STEL; 325 mg/m3 STEL
	Prevent or reduce skin absorption
NIOSH:	200 ppm TWA; 260 mg/m3 TWA
	250 ppm STEL; 325 mg/m3 STEL
	Potential for dermal absorption

Ethyl alcohol (64-17-5)

ACGIH:	1000 ppm STEL
OSHA Final:	1000 ppm TWA; 1900 mg/m3 TWA
OSHA Vacated:	1000 ppm TWA; 1900 mg/m3 TWA
NIOSH:	1000 ppm TWA; 1900 mg/m3 TWA

n-Propyl alcohol (71-23-8)

ACGIH:	100 ppm TWA
OSHA Final:	200 ppm TWA; 500 mg/m3 TWA
OSHA Vacated:	200 ppm TWA; 500 mg/m3 TWA
	250 ppm STEL; 625 mg/m3 STEL
NIOSH:	200 ppm TWA; 500 mg/m3 TWA
	250 ppm STEL; 625 mg/m3 STEL
	Potential for dermal absorption

Toluene (108-88-3)

ACGIH:	20 ppm TWA
OSHA Final:	200 ppm TWA
	300 ppm Ceiling
OSHA Vacated:	100 ppm TWA; 375 mg/m3 TWA
	150 ppm STEL; 560 mg/m3 STEL
NIOSH:	100 ppm TWA; 375 mg/m3 TWA
	150 ppm STEL; 560 mg/m3 STEL

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH:	100 ppm TWA
	150 ppm STEL
OSHA Final:	100 ppm TWA; 435 mg/m3 TWA
OSHA Vacated:	100 ppm TWA; 435 mg/m3 TWA
	150 ppm STEL; 655 mg/m3 STEL

Appropriate Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

Individual Protective Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required Safety glasses Gloves Lab coat or apron.

Eyes/Face Protection

Safety glasses with side shields should be worn at a minimum. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. Contact lens use is not recommended.

Skin Protection

Where skin contact is likely, wear gloves impervious to product; use of natural rubber (latex) or equivalent gloves is not recommended.

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits, or other protective clothing.

Respiratory Protection

Use NIOSH-certified, full-face respirators (self-contained breathing apparatus or air-line) respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

* * * Section 9 - Physical & Chemical Properties * * *

Appearance/Odor :	Clear, Colorless liquid	**pH:**	Not applicable
Odor:	alcohol odor	**Odor Threshold:**	40 ppm
Boiling Point:	180°F (82°C)	**Melting Point:**	-128°F (-89°C)
Solubility (H2O):	Complete	**Specific Gravity:**	0.79 (water =1)
Density:	6.5 LB/US gal (790 g/l)	**Octanol/H2O Coeff.:**	Log Pow = 0.05
Evaporation Rate:	2.9 (butyl acetate =1)	**Molecular Weight:**	60.1
Auto Ignition Temperature:	750°F (399°C) (minimum)	**LFL:**	2 VOL%
Flash Point:	54°F (12°C) Closed Cup	**UFL:**	12.7 VOL%@199°F (93°C)
Viscosity:	Not available	**Vapor Pressure:**	40 mm Hg at 75°F (24°C)
Flammability Class:	Flammable	**Vapor Density:**	2.1 (air = 1)
Decomposition Temperature:	Not available	**Freezing Point:**	-128°F (-89°C)

Other Property Information

No information is available.

* * * Section 10 - Stability & Reactivity * * *

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize under normal temperature and pressure conditions.

Conditions To Avoid

Avoid heat, sparks, flames, and other sources of ignition Avoid contact with incompatible materials.

Incompatible Materials

Combustible materials, acids, alkalis, oxidizing materials, halogens, metals, metal salts

Hazardous Decomposition Products

Burning may produce carbon dioxide, carbon monoxide, and unidentified organic compounds. See also **SECTION 5: HAZARDOUS COMBUSTION PRODUCTS**.

* * * Section 11 - Toxicological Information * * *

Toxicity Data and Information

Component Analysis - LD50/LC50

Isopropyl alcohol (67-63-0)

Dermal LD50 Rabbit 4059 mg/kg; Inhalation LC50 Rat 72600 mg/m3 4 h; Oral LD50 Rat 1870 mg/kg

Methyl alcohol (67-56-1)

Inhalation LC50 Rat 22500 ppm 8 h; Oral LD50 Rat 6200 mg/kg

Ethyl alcohol (64-17-5)

Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h

n-Propyl alcohol (71-23-8)

Oral LD50 Rat 1870 mg/kg; Dermal LD50 Rabbit 4049 mg/kg; Inhalation LC50 Rat >13548 ppm 4 h

Toluene (108-88-3)

Dermal LD50 Rabbit 12000 mg/kg; Inhalation LC50 Rat 12.5 mg/L 4 h (vapor); Oral LD50 Rat 2600 mg/kg

Xylenes (o-, m-, p- isomers) (1330-20-7)

Dermal LD50 Rabbit >4350 mg/kg; Inhalation LC50 Rat 29.08 mg/L 4 h (vapor); Oral LD50 Rat 3500 mg/kg

Information on Likely Routes of Exposure

Inhalation

May cause irritation, nausea, loss of appetite, headache, drowsiness, dizziness, disorientation, tremors, liver damage, kidney damage, lung damage, convulsions, and coma.

Ingestion

May be harmful if swallowed, May cause throat irritation, nausea, vomiting, and diarrhea. May cause blindness.

Skin Contact

May cause skin irritation.

Eye Contact

Causes serious eye irritation

Immediate Effects

Harmful if swallowed, severe eye irritation, respiratory tract irritation, central nervous system damage, central nervous system depression, eye damage, blindness, kidney damage, systemic toxicity damage

Delayed Effects

Reproductive effects, central nervous system damage, eye damage, blindness, liver damage, blood damage, spleen damage, cardiovascular system damage

Irritation/Corrosivity

Causes serious eye irritation, respiratory tract irritation, May cause skin irritation.

Respiratory Sensitization

No information available for the product.

Skin Sensitization

No information available for the product.

Carcinogenicity

No information available for the product.

Component Carcinogenicity

Isopropyl alcohol (67-63-0)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

Ethyl alcohol (64-17-5)

ACGIH: A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

OSHA: Present (select carcinogen)

IARC: Monograph 100E [2012] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages) (Group 1 (carcinogenic to humans))

n-Propyl alcohol (71-23-8)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Germ Cell Mutagenicity

No information available for the product.

Teratogenicity

No information available for the product.

Reproductive Effects

May damage fertility or the unborn child

Specific Target Organ Effects - Single Exposure

Central nervous system, retina, kidneys, and systemic toxicity

Specific Target Organ Effects - Repeated Exposure

Central nervous system, retina, liver, blood, spleen, and cardiovascular system

Aspiration Hazard

No information available for the product.

Medical Conditions Aggravated by Exposure

Eye disorders, skin disorders, central nervous system disorders, respiratory disorders, cardiovascular disorders, liver disorders, kidney disorders

* * * Section 12 - Ecological Information * * *

Ecotoxicity

Harmful to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Isopropyl alcohol (67-63-0)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Pimephales promelas	9640 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	11130 mg/L [static]
96 Hr LC50 Lepomis macrochirus	>1400000 µg/L
96 Hr EC50 Desmodesmus subspicatus	>1000 mg/L
72 Hr EC50 Desmodesmus subspicatus	>1000 mg/L
48 Hr EC50 Daphnia magna	13299 mg/L

Methyl alcohol (67-56-1)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Pimephales promelas	28200 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	19500 - 20700 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	18 - 20 mL/L [static]
96 Hr LC50 Lepomis macrochirus	13500 - 17600 mg/L [flow-through]

Ethyl alcohol (64-17-5)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	12.0 - 16.0 mL/L [static]
96 Hr LC50 Pimephales promelas	>100 mg/L [static]
96 Hr LC50 Pimephales promelas	13400 - 15100 mg/L [flow-through]
48 Hr LC50 Daphnia magna	9268 - 14221 mg/L
48 Hr EC50 Daphnia magna	2 mg/L [Static]

n-Propyl alcohol (71-23-8)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Pimephales promelas	4480 mg/L [flow-through]
48 Hr EC50 Daphnia magna	3642 mg/L
48 Hr EC50 Daphnia magna	3339 - 3977 mg/L [Static]

Toluene (108-88-3)

Duration/Test/Species	Concentration/Conditions	
96 Hr LC50 Pimephales promelas	15.22 - 19.05 mg/L [flow-through]	1 day old
96 Hr LC50 Pimephales promelas	12.6 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.89 - 7.81 mg/L [flow-through]	
96 Hr LC50 Oncorhynchus mykiss	14.1 - 17.16 mg/L [static]	
96 Hr LC50 Oncorhynchus mykiss	5.8 mg/L [semi-static]	
96 Hr LC50 Lepomis macrochirus	11.0 - 15.0 mg/L [static]	
96 Hr LC50 Oryzias latipes	54 mg/L [static]	
96 Hr LC50 Poecilia reticulata	28.2 mg/L [semi-static]	
96 Hr LC50 Poecilia reticulata	50.87 - 70.34 mg/L [static]	
96 Hr EC50 Pseudokirchneriella subcapitata	>433 mg/L	
72 Hr EC50 Pseudokirchneriella subcapitata	12.5 mg/L [static]	
48 Hr EC50 Daphnia magna	5.46 - 9.83 mg/L [Static]	
48 Hr EC50 Daphnia magna	11.5 mg/L	

Xylenes (o-, m-, p- isomers) (1330-20-7)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Pimephales promelas	13.4 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	2.661 - 4.093 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	13.5 - 17.3 mg/L
96 Hr LC50 Lepomis macrochirus	13.1 - 16.5 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	19 mg/L
96 Hr LC50 Lepomis macrochirus	7.711 - 9.591 mg/L [static]
96 Hr LC50 Pimephales promelas	23.53 - 29.97 mg/L [static]
96 Hr LC50 Cyprinus carpio	780 mg/L [semi-static]
96 Hr LC50 Cyprinus carpio	>780 mg/L
96 Hr LC50 Poecilia reticulata	30.26 - 40.75 mg/L [static]
48 Hr EC50 water flea	3.82 mg/L
48 Hr LC50 Gammarus lacustris	0.6 mg/L

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

Other Adverse Effects

No additional information is available.

* * * Section 13 - Disposal Considerations * * *

Disposal Methods

Dispose of in accordance with all applicable federal, state and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

Hazardous Waste Number(s): U154. D001. Subject to disposal regulations: U.S. EPA 40 CFR 262. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

* * * Section 14 - Transport Information * * *

Emergency Response Guide Number

129: Reference .*North American Emergency Response Guidebook*

Transportation Regulations

DOT **Shipping Name:** Isopropanol
UN/NA #: UN1219 **Hazard Class:** 3 **Packing Group:** II
Required Label(s): FLAMMABLE LIQUID

TDG **Shipping Name:** Isopropanol
UN/NA #: UN1219 **Hazard Class:** 3 **Packing Group:** II
Required Label(s): FLAMMABLE LIQUID

* * * Section 15 - Regulatory Information * * *

Volatile Organic Compounds (As Regulated)

100 WT%; 6.5 LB/US gal; 790 g/L As per 40 CFR Part 51.100(s)

Federal Regulations

SARA 302/304

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA 311/312 Hazardous Categories

Acute Health: Yes **Chronic Health:** Yes **Fire:** Yes **Pressure:** No **Reactive:** No

SARA Section 313

Component Analysis

This product contains a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Isopropyl alcohol (67-63-0)	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
Methyl alcohol (67-56-1)	1.0 % de minimis concentration
Toluene (108-88-3)	1.0 % de minimis concentration
Xylenes (o-, m-, p- isomers) (1330-20-7)	1.0 % de minimis concentration

CERCLA

Component Analysis

Based on the ingredient(s) listed in SECTION 3, this product contains the following "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4 with the following reportable quantities (RQ):

Methyl alcohol (67-56-1)	5000 lb final RQ; 2270 kg final RQ
Toluene (108-88-3)	1000 lb final RQ; 454 kg final RQ
Xylenes (o-, m-, p- isomers) (1330-20-7)	100 lb final RQ; 45.4 kg final RQ

TSCA Inventory

All the components of this product are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.

Component Analysis

Component	CAS #	TSCA
Isopropyl alcohol	67-63-0	Yes
Methyl alcohol	67-56-1	Yes
Ethyl alcohol	64-17-5	Yes
n-Propyl alcohol	71-23-8	Yes
Toluene	108-88-3	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes
n-Propyl alcohol	71-23-8	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects (methanol [67-56-1], toluene [108-88-3]

Canadian Regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

Component Analysis

Component	CAS #	CAN
Isopropyl alcohol	67-63-0	DSL
Methyl alcohol	67-56-1	DSL
Ethyl alcohol	64-17-5	DSL
n-Propyl alcohol	71-23-8	DSL
Toluene	108-88-3	DSL
Xylenes (o-, m-, p- isomers)	1330-20-7	DSL

Canadian WHMIS Information

B2, D2A, D2B.

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Isopropyl alcohol (67-63-0) 1 %
Methyl alcohol (67-56-1) 1 %
Ethyl alcohol (64-17-5) 0.1 %
n-Propyl alcohol (71-23-8) 1 %

* * * Section 16 - Other Information * * *

Revision Information

Reformat to OSHA HazCom 29 CFR 1910.1200 adoption of GHS Revision 3.

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

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End of Sheet 82405