



Safety Data Sheet

Material Name: CLEAN HARBORS ISOPROPYL ALCOHOL

SDS ID: 89065

*** Section 1 - Identification ***

Product Identifier

CLEAN HARBORS ISOPROPYL ALCOHOL

Product Code

Not available.

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

Clean Harbors Recycling Services of Chicago, LLC
1445 W. 42nd Street
Chicago, IL 60609

Phone: 1-773-247-2828
www.cleanharbors.com

Emergency # 1-800-645-8265

Issue Date

October 26, 2021

Supersedes Issue Date

August 20, 2018

Original Issue Date

June 24, 2009

*** 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
Specific target organ toxicity - Single exposure - Category 3
Specific target organ toxicity - Repeated exposure - Category 1
Specific target organ toxicity - Repeated exposure - Category 2
Hazardous to the Aquatic Environment - Acute - 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

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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.

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.

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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 1-800-645-8265 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.

* * * 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.

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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**. 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**.

***** 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 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
NIOSH:	400 ppm TWA ; 980 mg/m3 TWA; 500 ppm STEL ; 1225 mg/m3 STEL 2000 ppm IDLH (10% LEL)
OSHA (US):	400 ppm TWA ; 980 mg/m3 TWA
n-Propyl alcohol	71-23-8
ACGIH:	100 ppm TWA
NIOSH:	200 ppm TWA ; 500 mg/m3 TWA; 250 ppm STEL ; 625 mg/m3 STEL Potential for dermal absorption; 800 ppm IDLH
OSHA (US):	200 ppm TWA ; 500 mg/m3 TWA
Ethyl alcohol	64-17-5
ACGIH:	1000 ppm STEL
NIOSH:	1000 ppm TWA ; 1900 mg/m3 TWA; 3300 ppm IDLH (10% LEL)

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OSHA (US):	1000 ppm TWA ; 1900 mg/m3 TWA
Methyl alcohol	67-56-1
ACGIH:	200 ppm TWA; 250 ppm STEL; Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	200 ppm TWA ; 260 mg/m3 TWA; 250 ppm STEL ; 325 mg/m3 STEL; Potential for dermal absorption; 6000 ppm IDLH
OSHA (US):	200 ppm TWA ; 260 mg/m3 TWA
Toluene	108-88-3
ACGIH:	20 ppm TWA
NIOSH:	100 ppm TWA ; 375 mg/m3 TWA; 150 ppm STEL ; 560 mg/m3 STEL; 500 ppm IDLH
OSHA (US):	200 ppm TWA; 300 ppm Ceiling
Xylenes (o-, m-, p-isomers)	1330-20-7
ACGIH:	100 ppm TWA; 150 ppm STEL
OSHA (US):	100 ppm TWA ; 435 mg/m3 TWA

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 face shield, boots, apron, whole body suits or other protective clothing. When product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing.

Respiratory Protection

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

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*** 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)

*** 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**.

*** Section 11 - Toxicological Information ***

Toxicity Data and Information

Component Analysis - LD50/LC50

Isopropyl alcohol (67-63-0)

Oral LD50 Rat 1870 mg/kg; Dermal LD50 Rabbit 4059 mg/kg; Inhalation LC50 Rat >10000 ppm 6 h (no deaths occurred)

n-Propyl alcohol (71-23-8)

Oral LD50 Rat 1870 mg/kg; Dermal LD50 Rabbit 4049 mg/kg; Inhalation LC50 Rat >33.8 mg/L 4 h (no deaths occurred)

Ethyl alcohol (64-17-5)

Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 116.9 mg/L 4 h (males)

Methyl alcohol (67-56-1)

Oral LD50 Rat 6200 mg/kg; Dermal LD50 Rabbit 15840 mg/kg; Inhalation LC50 Rat 22500 ppm 8 h

Toluene (108-88-3)

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

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

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

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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))
n-Propyl alcohol	71-23-8
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Ethyl alcohol	64-17-5
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
DFG:	Category 5 (low carcinogenic potency)
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

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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
Fish:	LC50 96 h Pimephales promelas 9640 mg/L [flow-through] ; LC50 96 h Pimephales promelas 11130 mg/L [static] ; LC50 96 h Lepomis macrochirus >1400000 µg/L
Algae:	EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID ; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 13299 mg/L IUCLID
n-Propyl alcohol	71-23-8
Fish:	LC50 96 h Pimephales promelas 4480 mg/L [flow-through]
Invertebrate:	EC50 48 h Daphnia magna 3642 mg/L IUCLID ; EC50 48 h Daphnia magna 3339 - 3977 mg/L [Static] EPA
Ethyl alcohol	64-17-5
Fish:	LC50 96 h Oncorhynchus mykiss 12 - 16 mL/L [static] ; LC50 96 h Pimephales promelas >100 mg/L [static] ; LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through]
Invertebrate:	LC50 48 h Daphnia magna 9268 - 14221 mg/L IUCLID ; EC50 48 h Daphnia magna 2 mg/L [Static] EPA

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Methyl alcohol	67-56-1
Fish:	LC50 96 h Pimephales promelas 28200 mg/L [flow-through] ; LC50 96 h Pimephales promelas >100 mg/L [static] ; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static] ; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through]
Toluene	108-88-3
Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old) ; LC50 96 h Pimephales promelas 12.6 mg/L [static] ; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static] ; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static] ; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static] ; LC50 96 h Oryzias latipes 54 mg/L [static] ; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static] ; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID ; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [Static] EPA ; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
Xylenes (o-, m-, p- isomers)	1330-20-7
Fish:	LC50 96 h Pimephales promelas 13.4 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static] ; LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L ; LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through] ; LC50 96 h Lepomis macrochirus 19 mg/L ; LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static] ; LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L [static] ; LC50 96 h Cyprinus carpio 780 mg/L [semi-static] ; LC50 96 h Cyprinus carpio >780 mg/L ; LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static]
Invertebrate:	EC50 48 h water flea 3.82 mg/L ; LC50 48 h 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 Clean Harbors regarding proper recycling or disposal.

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*** Section 14 - Transport Information ***

US DOT Information:

Shipping Name: ISOPROPANOL

Hazard Class: 3

UN/NA #: UN1219

Packing Group: II

Required Label(s): 3 FLAMMABLE LIQUID

IATA Information:

Shipping Name: ISOPROPANOL

Hazard Class: 3

UN#: UN1219

Packing Group: II

Required Label(s): 3

IMDG Information:

Shipping Name: ISOPROPANOL

Hazard Class: 3

UN#: UN1219

Packing Group: II

Required Label(s): 3

TDG Information:

Shipping Name: ISOPROPANOL

Hazard Class: 3

UN#: UN1219

Packing Group: II

Required Label(s): 3 FLAMMABLE LIQUID

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

n-Propyl alcohol	71-23-8
IBC Code:	Category Y
Methyl alcohol	67-56-1
IBC Code:	Category Y
Toluene	108-88-3
IBC Code:	Category Y
Xylenes (o-, m-, p- isomers)	1330-20-7
IBC Code:	Category Y

Further information

Emergency Response Guide Number 129: Reference - North American Emergency Response Guidebook

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*** Section 15 - Regulatory Information ***
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U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Isopropyl alcohol	67-63-0
SARA 313:	1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
Methyl alcohol	67-56-1
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Toluene	108-88-3
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
Xylenes (o-, m-, p-isomers)	1330-20-7
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ

Chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

CAS-No.	Name	Percent by Weight
67-63-0	Isopropyl alcohol	86-98
67-56-1	Methyl alcohol	0-2
108-88-3	Toluene	0-1
1330-20-7	Xylenes (o-, m-, p-isomers)	0-1

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Flammable; Acute toxicity; Reproductive Toxicity; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity

U.S. State Regulations

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

Component	CAS	CA	MA	MN	NJ	PA
Isopropyl alcohol	67-63-0	Yes	Yes	Yes	Yes	Yes
n-Propyl alcohol	71-23-8	Yes	Yes	Yes	Yes	Yes
Ethyl alcohol	64-17-5	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes

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Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes
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California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product can expose you to chemicals including Ethyl alcohol , which is known to the State of California to cause cancer and Ethyl alcohol, Methyl alcohol, Toluene , which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ethyl alcohol	64-17-5
Carc:	carcinogen , 4/29/2011 (in alcoholic beverages)
Repro/Dev. Tox	developmental toxicity , 10/1/1987 (in alcoholic beverages)
Methyl alcohol	67-56-1
Repro/Dev. Tox	developmental toxicity , 3/16/2012
Toluene	108-88-3
Repro/Dev. Tox	developmental toxicity , 1/1/1991

Canada Regulations

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Isopropyl alcohol	67-63-0
	1 %
n-Propyl alcohol	71-23-8
	1 %
Ethyl alcohol	64-17-5
	0.1 %
Methyl alcohol	67-56-1
	1 %
Toluene	108-88-3
	1 %

WHMIS Classification

B2, D1B, D2A, D2B

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Component Analysis - Inventory

Isopropyl alcohol (67-63-0)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA		MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)	
No		Yes	Yes	Yes	Yes	Yes	Yes	

n-Propyl alcohol (71-23-8)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA		MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)	
No		Yes	Yes	Yes	Yes	Yes	Yes	

Ethyl alcohol (64-17-5)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA		MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)	
No		Yes	Yes	Yes	Yes	Yes	Yes	

Methyl alcohol (67-56-1)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA		MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)	
Yes		Yes	Yes	Yes	Yes	Yes	Yes	

Toluene (108-88-3)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA		MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)	
Yes		Yes	Yes	Yes	Yes	Yes	Yes	

Safety Data Sheet

Material Name: CLEAN HARBORS ISOPROPYL ALCOHOL

SDS ID: 89065

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

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No
KR - REACH CCA			MX	NZ	PH	TH-TECI	TW, CN	VN (Draft)
Yes			Yes	Yes	Yes	Yes	Yes	Yes

***** Section 16 - Other Information *****

NFPA Ratings

Health: 2 Fire: 3 Instability: 0

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

Revision Information

Regulatory review and update. Addition to Section 15.

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

Disclaimer

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