



Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

SAFETY-KLEEN ISOPROPYL ALCOHOL

Product Code

1021802, 1024802

Synonyms

Isopropanol

Product Use

Solvent for reduction, chemical intermediates, and a drying agent. If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

Restrictions on Use

None known.

Manufacturer Information

Safety-Kleen Systems, Inc.

42 Longwater Drive

Norwell, MA 02061-9149

Phone: 1-800-669-5740

www.safety-kleen.com

Emergency # 1-800-468-1760

Issue Date

April 5, 2021

Supersedes Issue Date

June 7, 2018

Original Issue Date

August, 1982

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 2

Acute Toxicity - Oral - Category 4

Serious Eye Damage/Eye Irritation - Category 2A

Reproductive Toxicity - 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

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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 organs. (central nervous system, retina, kidneys, systemic toxicity)
May cause respiratory irritation, drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure. (central nervous system, liver, retina)
May cause damage to organs through prolonged or repeated exposure.(blood, spleen, cardiovascular system)
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 person 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): Remove/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: Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Call a poison center or doctor immediately for treatment advice.

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.

Statement(s) of Unknown Acute Toxicity

Oral 4% of the mixture consists of ingredient(s) of unknown acute toxicity.

Other Hazards

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
67-63-0	Isopropyl alcohol	80-90
71-23-8	n-Propyl alcohol	0-2
64-17-5	Ethyl alcohol	0-2
67-56-1	Methyl alcohol	0-2
108-88-3	Toluene	0-1

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

1330-20-7	Xylenes (o-, m-, p- isomers)	0-1
-----------	------------------------------	-----

Section 4 - FIRST AID 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 any immediate medical attention and special treatment 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

Extinguishing Media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use high-pressure water streams.

Special 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 unidentified organic compounds.

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

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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.

Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

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 Cleaning 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 shoes. Do not smoke while using this product. Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

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

Incompatible Materials

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)

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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)
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

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Isopropyl alcohol (67-63-0)

40 mg/l Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

Methyl alcohol (67-56-1)

15 mg/l Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

Toluene (108-88-3)

0.02 mg/l Medium: blood Time: prior to last shift of workweek Parameter: Toluene ; 0.03 mg/l Medium:

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

urine Time: end of shift Parameter: Toluene ; 0.3 mg/g creatinine Medium: urine Time: end of shift
Parameter: o-Cresol with hydrolysis (background)

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

1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

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 Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Skin Protection/Glove Recommendations

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 with product where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits or 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.

Protective Materials

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.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid.	Physical State	Liquid
Odor	Alcohol.	Color	Colorless.
Odor Threshold	40 ppm	pH	Not available
Melting Point	-89 °C (-128 °F)	Boiling Point	82 °C (180 °F)
Boiling Point Range	Not available	Freezing point	-89 °C (-128°F)
Evaporation Rate	2.9 (Butyl acetate = 1)	Flammability (solid, gas)	Not available
Autoignition Temperature	399 °C (750 °F Minimum)	Flash Point	12 °C (54 °F)
Lower Explosive Limit	2 vol%	Decomposition temperature	Not available
Upper Explosive Limit	12.7 vol%	Vapor Pressure	40 mmHg @ 75°F °C (24 °C)
Vapor Density (air=1)	2.1 (Air = 1)	Specific Gravity (water=1)	0.79 (Water = 1)

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

Water Solubility	(Complete)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Coefficient of Water/Oil Dist	0.05
Density	6.5 lb/gal (US)	Physical Form	Liquid.
Molecular Weight	60.1	OSHA Flammability Category	Flammable
Volatile Organic Compounds (As regulated)	100 WT%; 6.5 LB/US gal; 779 g/L as per 40 CFR 51.100(s)		

Section 10 - STABILITY AND 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, flames, sparks 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

Not applicable under normal conditions of use and storage. Decomposition and combustion materials may be toxic. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause respiratory tract irritation.

Skin Contact

May cause skin irritation.

Eye Contact

Causes serious eye irritation.

Ingestion

Harmful if swallowed.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Isopropyl alcohol (67-63-0)

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

Ethyl alcohol (64-17-5)

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

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Inhalation - Vapor	> 20 mg/L
Oral	> 2000 mg/kg

Immediate Effects

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

Delayed Effects

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

Irritation/Corrosivity Data

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

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

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))

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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.

Tumorigenic Data

No information available for the product.

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, retina, kidneys, and systemic toxicity.

Specific Target Organ Toxicity - 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
--

Component Analysis - 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]

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

Invertebrate:	LC50 48 h Daphnia magna 9268 - 14221 mg/L IUCLID ; EC50 48 h Daphnia magna 2 mg/L [Static] EPA
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.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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.

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

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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

Section 15 - REGULATORY INFORMATION

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

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

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

WARNING! This product can expose you to chemicals including 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.

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

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	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	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	VN (Draft)
No			Yes	Yes	Yes	Yes	Yes	Yes

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

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	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	VN (Draft)
Yes			Yes	Yes	Yes	Yes	Yes	Yes

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	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

Summary of Changes

Regulatory review and update.

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and

Safety Data Sheet

Material Name: SAFETY-KLEEN ISOPROPYL ALCOHOL

SDS ID: 82405

New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; KR REACH CCA - Korea Registration and Evaluation of Chemical Substances Chemical Control Act; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TH-TECI - Thailand - FDA Existing Chemicals Inventory (TECI); TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.