

Smithfield Recovered Perchloroethylene

Safety Data Sheet

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Smithfield Recovered Perchloroethylene

Synonyms

Tetrachloroethylene, Tetrachloroethene, PERCHLOROETHENE, 1,1,2,2-TETRACHLOROETHYLENE

Product Use

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

Restrictions on Use

This product is not for sale or use in the State of California.

MANUFACTURER

CTURER DISTRIBUTOR

Safety-Kleen Systems, Inc.

Safety-Kleen Canada, Inc.

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SDS ID: 820090

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Supersedes Issue Date

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Original Issue Date

October 31, 1988

Section 2 - HAZARDS IDENTIFICATION

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

Acute Toxicity - Oral - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2B

Carcinogenicity - Category 2

Reproductive Toxicity - Category 2

Specific target organ toxicity - Single exposure - Category 3

Specific target organ toxicity - Repeated exposure - Category 1

GHS Label Elements

Symbol(s)





Signal Word

Danger

Hazard Statement(s)

Harmful if swallowed.

Causes skin and eye irritation.

Suspected of causing cancer.

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Suspected of damaging fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure. (liver, kidneys, central nervous system)

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Precautionary Statement(s)

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

Response

IF exposed or concerned: Get medical advice/attention. IF INHALED. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. 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. Immediately get medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

Storage

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

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

No additional information is available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
127-18-4	Tetrachloroethylene	97-100
1653-19-6	2,3-Dichlorobutadiene-1,3	<3
1330-20-7	Xylenes (o-, m-, p- isomers)	0-0.2

Section 4 - FIRST AID MEASURES

Inhalation

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

Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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

Do NOT induce vomiting. Immediately get medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything by mouth to an unconscious person.

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Most Important Symptoms/Effects

Acute

Causes skin, eye and respiratory irritation.

Delayed

Cancer, reproductive effects, liver damage, kidney damage, central nervous system damage.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. Do not administer Adrenaline (epinephrine) or similar drugs following product overexposure. Increased sensitivity of the heart to such drugs may be caused by overexposure to product. Administration of gastric lavage and/or activated charcoal slurry, if warranted, should be performed by qualified medical personnel. 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 scatter spilled material with high-pressure water streams.

Special Hazards Arising from the Chemical

This material will not burn.

Hazardous Combustion Products

Product itself does not burn, but may decompose upon heating to produce phosgene, halogenated compounds, hydrogen chloride gas, carbon monoxide, and unidentified organic compounds.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Heated containers may rupture or be thrown into the air. Keep storage containers cool with water spray.

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

Do not touch or walk through spilled product. Stop leak if you can do it without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. 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, spark proof tool into a sealable container for disposal. Additionally, for large spills: 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 sparks or flame. Use clean tools. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, shoes.

Conditions for Safe Storage, Including any Incompatibilities

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

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Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. 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: TRANSPORTATION INFORMATION for Packing Group information.

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Incompatible Materials

Acids, alkalis, oxidizing materials, reactive metals.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Tetrachloroethylene	127-18-4
Alberta, New Brunswick	25 ppm TWA ; 170 mg/m3 TWA; 100 ppm STEL ; 678 mg/m3 STEL
British Columbia, Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Saskatchewan	25 ppm TWA; 100 ppm STEL
Manitoba	25 ppm TWA
Quebec	25 ppm TWAEV ; 170 mg/m3 TWAEV; 100 ppm STEV ; 685 mg/m3 STEV
Yukon	100 ppm TWA ; 670 mg/m3 TWA; 150 ppm STEL ; 1000 mg/m3 STEL Skin notation
ACGIH	25 ppm TWA; 100 ppm STEL
OSHA Final	100 ppm TWA; 200 ppm Ceiling
OSHA Vacated	25 ppm TWA; 170 mg/m3 TWA
Xylenes (o-, m-, p- isomers)	1330-20-7
Alberta, New Brunswick	100 ppm TWA ; 434 mg/m3 TWA; 150 ppm STEL ; 651 mg/m3 STEL
British Columbia, Northwest Territories, Nova Scotia, Nunavut, Ontario, Prince Edward Island, Saskatchewan	100 ppm TWA; 150 ppm STEL
Manitoba	100 ppm TWA
Quebec	100 ppm TWAEV ; 434 mg/m3 TWAEV; 150 ppm STEV ; 651 mg/m3 STEV
Yukon	100 ppm TWA ; 435 mg/m3 TWA; 150 ppm STEL ; 650 mg/m3 STEL Skin notation
ACGIH	100 ppm TWA; 150 ppm STEL

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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

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

Tetrachloroethylene (127-18-4)

3 ppm Medium: end-exhaled air time: prior to shift Parameter: Tetrachloroethylene; 0.5 mg/l Medium: blood Time: prior to shift Parameter: Tetrachloroethylene

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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.

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.

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.

Skin Protection/Glove Recommendations

Where skin contact is likely, wear laminate or equivalent protective gloves; 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.

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: Gloves, Safety glasses, and Lab coat or apron.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid	Physical State	Liquid
Odor	Slightly sweet odor	Color	Clear, colorless
Odor Threshold	50 ppm	рН	Not available
Melting Point	-19 °C (-2 °F)	Boiling Point	Not available.
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	2.8 (Butyl acetate = 1)	Flammability (solid, gas)	Not available
Autoignition Temperature	Not available	Flash Point	Not available

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Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	14 mmHg @ 68°F °C (20° C)
Vapor Density (air=1)	5.2 (Air = 1)	Specific Gravity (water=1)	1.59 (Water = 1)
Water Solubility	(Insoluble)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Coefficient of Water/Oil Dist	2.53 - 2.88
Density	13.5 lb/gal (US)	Physical Form	liquid.
Volatile Organic Compou	nds (As regulated)	<3 WT%; <0.4 lb/US gal; 51.100(s); Not photochem	48 g/L as per 40 CFR Part nically reactive
Molecular Weight	165.8		

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition.

Incompatible Materials

Acids, alkalis, oxidizing materials, reactive metals.

Hazardous decomposition products

None under normal temperatures and pressures. Product itself does not burn, but may decompose upon heating to produce phosgene, halogenated compounds, hydrogen chloride gas, carbon monoxide, and unidentified organic compounds. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Disorientation, irritation, nausea, vomiting, chest pain, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, loss of coordination, mood swings, blurred vision, lung congestion, liver damage, kidney damage, central nervous system damage.

Skin Contact

Irritation

Eye Contact

Eye irritation

Ingestion

Nausea, vomiting, headache, drowsiness, dizziness, loss of coordination, kidney damage, liver damage.

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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:

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Tetrachloroethylene (127-18-4)

Oral LD50 Rat 2629 mg/kg; Inhalation LC50 Rat 27.8 mg/L 4 h

2,3-Dichlorobutadiene-1,3 (1653-19-6)

Oral LD50 Rat 222 mg/kg; Inhalation LC50 Rat 2.08 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	1961.5447 mg/kg	

Immediate Effects

High concentrations of vapor or mist may be harmful if inhaled, irritate the respiratory tract (nose, throat, and lungs), cause nausea, vomiting, headaches, dizziness, loss of coordination, numbness, and other central nervous system effects and/or cause liver and kidney damage. May cause eye irritation. Symptoms include itching, burning, redness and tearing. May cause skin irritation. Not likely to be absorbed through the skin in harmful amounts. This product may be harmful if swallowed. Ingestion may cause throat irritation, nausea, vomiting, central nervous system effects, unconsciousness, coma, and death.

Delayed Effects

Prolonged or repeated inhalation may cause toxic effects as noted under Acute Effects for inhalation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis). Based on best current information, there is no known human sensitization associated with this product. Perchloroethylene has demonstrated experimental effects of reproductive toxicity, teratogenicity and mutagenicity.

Irritation/Corrosivity Data

Causes skin, eye and respiratory irritation.

Respiratory Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Dermal Sensitization

Based on best current information, there is no known human sensitization associated with this product.

Component Carcinogenicity

Tetrachloroethylene	127-18-4	
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	
IARC:	Monograph 106 [2014]; Monograph 63 [1995]; Supplement 7 [1987] (Group 2A (probably carcinogenic to humans))	
NTP:	Reasonably Anticipated To Be A Human Carcinogen	
DFG:	Category 3B (could be carcinogenic for man)	
OSHA:	Present	

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NIOSH:	potential occupational carcinogen	
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))	

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Germ Cell Mutagenicity

Perchloroethylene has demonstrated experimental effects of mutagenicity.

Tumorigenic Data

Perchloroethylene has demonstrated experimental effects of teratogenicity.

Reproductive Toxicity

Perchloroethylene and methyl chloroform have demonstrated animal effects of reproductive toxicity. Also see SECTION 15: CALIFORNIA.

Specific Target Organ Toxicity - Single Exposure

Respiratory tract.

Specific Target Organ Toxicity - Repeated Exposure

Contains material which may cause liver, kidney, and central nervous system damage.

Aspiration hazard

No data available for this product.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing cardiovascular, liver, kidney, respiratory tract (nose, throat, and lungs), central nervous system, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

Additional Data

No additional information is available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

Tetrachloroethylene	127-18-4	
Fish:	LC50 96 h Pimephales promelas 12.4 - 14.4 mg/L [flow-through]; LC50 96 h Pimephales promelas 8.6 - 13.5 mg/L [static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oncorhynchus mykiss 4.73 - 5.27 mg/L [flow-through]	
Algae:	EC50 96 h Pseudokirchneriella subcapitata >500 mg/L EPA	
Invertebrate:	EC50 48 h Daphnia magna 6.1 - 9 mg/L [Static] EPA	
2,3- Dichlorobutadiene- 1,3	1653-19-6	
Fish:	LC50 96 h Brachydanio rerio 10.1 mg/L	

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Xylenes (0-, 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 Lepom macrochirus 7.711 - 9.591 mg/L [static]; LC50 96 h Pimephales promelas 23.5 - 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	

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Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. Processing, use, or contamination by the user may change the waste code(s) applicable to the disposal of this product. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding proper recycling or disposal.

Component Waste Numbers

Tetrachloroethylene	127-18-4	Series
RCRA:	waste number U210	U
RCRA:	0.7 mg/l regulatory level	D.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: TETRACHLOROETHYLENE

Hazard Class: 6.1 UN/NA #: UN1897 Packing Group: III Required Label(s): 6.1

IATA Information:

Shipping Name: TETRACHLOROETHYLENE

Hazard Class: 6.1 UN#: UN1897 Packing Group: III Required Label(s): 6.1

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IMDG Information:

Shipping Name: TETRACHLOROETHYLENE

Hazard Class: 6.1 UN#: UN1897 Packing Group: III Required Label(s): 6.1 P

TDG Information: Hazard Class: 6.1 UN#: 1897

Packing Group: III Required Label(s): 6.1

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.

Tetrachloroethylene	127-18-4
IBC Code:	Category Y
Xylenes (o-, m-, p- isomers)	1330-20-7
IBC Code:	Category Y

Further information

ERG 160; Reference: North American Emergency Response Guidebook

Section 15 - REGULATORY INFORMATION

Canada Regulations

CEPA - Priority Substances List

Tetrachloroethylene	127-18-4					
	Priority Substance List 1 (substance considered toxic)					
Xylenes (o-, m-, p- isomers)	1330-20-7					
	Priority Substance List 1 (substance not considered toxic)					

Ozone Depleting Substances

None of this product's components are on the list.

Council of Ministers of the Environment - Soil Quality Guidelines

Tetrachloroethylene	127-18-4
Residential and Parkland	0.2 mg/kg (dry weight)
Xylenes (o-, m-, p- isomers)	1330-20-7

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Residential and Parkland

Residential and Pa

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Council of Ministers of the Environment - Water Quality Guidelines

None of this product's components are on the list.

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.

Tetrachloroethylene	127-18-4				
SARA 313:	0.1 % de minimis concentration				
CERCLA:	100 lb final RQ ; 45.4 kg final RQ				
Xylenes (o-, m-, p- isomers)	1330-20-7				
Xylenes (o-, m-, p- isomers) SARA 313:	1330-20-7 1 % de minimis concentration				

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

Carcinogenicity; Acute toxicity; Reproductive Toxicity; Skin Corrosion/Irritation; 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
Tetrachloroethylene	127-18-4	Yes	Yes	Yes	Yes	Yes
2,3-Dichlorobutadiene-1,3	1653-19-6	No	Yes	No	No	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes

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

This product is not for sale or use in the state of California.

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Component Analysis - Inventory

Tetrachloroethylene (127-18-4)

• ` ' /											
US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2	
Yes	DSL	Yes	Yes	s E	IN	Yes	Yes		Yes	No	
KR - REACH CCA		\	MX	NZ	PH	TH- TECI	TW	VN (Draft)	·		
Yes	·	·		Yes	Yes	Yes	Yes	Yes	Yes		

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2,3-Dichlorobutadiene-1,3 (1653-19-6)

US	CA	AU	Cl	N	EU		JP - ENCS	JP - ISHL		JP - ISHL		KR KECI - Annex	KR KECI - Annex 2
Yes	NSL	Yes	Y	es	EIN		Yes	Yes		No	No		
KR -	KR - REACH CCA		1	МΣ	X N	Z	PH	TH- TECI	TW	VN (Draft)			
No		No No No			Yes	No	Yes	Yes					

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

US	CA	AU	CN	E	U	JP - ENCS	JP - ISHL		KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	E	IN	Yes	Yes		Yes	No
KR - REACH CCA		X I	ΜX	NZ	PH	TH- TECI	TW	VN (Draft)		
Yes				Yes	Yes	Yes	Yes	Yes	Yes	

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 2 Fire: 0 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

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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 LIstsTM - 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).

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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.

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