

Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

PVC and KEE HP Membrane Cleaner

Chemical Family

Membrane cleaner

Product Use

Clean PVC Roofing Membranes

Restrictions on Use

None known.

Manufacturer Information

Carlisle SynTec Systems
1285 Ritner Highway
Carlisle, PA 17013
USA
Phone: +1-800-479-6832
Emergency Phone #: +1-800-424-9300 (CHEMTREC)

Section 2 - HAZARDS IDENTIFICATION

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

Flammable Liquids - Category 2

Aspiration Hazard - Category 1

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Carcinogenicity - Category 2

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (central nervous system, digestive system, and respiratory system)

Specific Target Organ Toxicity - Repeated Exposure - Category 2 (blood, kidneys, liver, and ears)

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause respiratory irritation. May cause drowsiness or dizziness.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

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

Response

In case of fire: Use appropriate media to extinguish.
IF exposed or concerned: Get medical advice or attention.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
If skin irritation occurs: Get medical advice or attention.
Wash contaminated clothing before reuse.
Specific treatment (see label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Do NOT induce vomiting.

Storage

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

Disposal

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



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Other Hazards

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
67-64-1	Acetone	50
1330-20-7	Xylenes (o-, m-, p- isomers)	30-40
100-41-4	Ethylbenzene	10-20

The chemical identity and/or percentage of composition is being withheld as a trade secret.

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

If exposed: Call a POISON CENTER or doctor or physician.

Inhalation

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

Skin

Remove or take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical advice or attention. Wash contaminated clothing before reuse.

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

Aspiration hazard. Immediately call a POISON CENTER or doctor or physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration.

Most Important Symptoms/Effects

Acute

May be fatal if swallowed and enters airways. Skin irritation, eye and respiratory irritation, drowsiness and dizziness

Delayed

Cancer, reproductive effects, central nervous system damage, digestive system damage, respiratory system damage, kidney damage, liver damage, ear damage, or blood damage.

Note to Physicians

If adverse effects occur, treat symptomatically and supportively.



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water spray, foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Special Hazards Arising from the Chemical

Highly flammable. Vapors may travel to ignition source and flashback. Most vapors are heavier than air and will spread along ground and collect in low or confined areas (drains, basements, tanks).

Hazardous Combustion Products

Carbon dioxide, carbon monoxide, Hydrocarbon

Advice for firefighters

Wear self-contained breathing apparatus with a full facepiece and protective clothing.

Fire Fighting Measures

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Ground and bond container and receiving equipment. Take action to prevent static discharges. Move container from fire area if it can be done without risk. Do not use high-pressure water streams. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

Special Protective Equipment and Precautions for Firefighters

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

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Eliminate all sources of ignition. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements, or confined areas. Vapor-suppressing foam may be used to control vapors. Absorb with earth, sand or other non-combustible material and transfer to container. Use non-sparking tools during clean-up. Dike far ahead of liquid spill for collection and later disposal. Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces.

Environmental Precautions

Avoid release to the environment.

Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Take action to prevent static discharges. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Wear protective gloves, clothing and eye, and face protection. Do not breathe gas, fumes, vapor, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including any Incompatibilities

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

Keep cool.

Store locked up.

Keep away from heat and ignition sources. Do not cut, puncture, or weld on or near this container. Store in accordance with all current regulations and standards. Keep away from incompatible materials. Empty product containers may contain product residue.

Incompatible Materials

Oxidizing agents, acids, bases, aldehydes, amines, ammonia, reducing agents, and chlorine compounds.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Acetone	67-64-1
ACGIH:	250 ppm TWA
	500 ppm STEL
NIOSH:	250 ppm TWA 590 mg/m ³ TWA
	2500 ppm IDLH (10% LEL)
Europe:	500 ppm TWA 1210 mg/m ³ TWA
OSHA (US):	1000 ppm TWA 2400 mg/m ³ TWA
Mexico:	1000 ppm TWA VLE-PPT 2400 mg/m ³ TWA VLE-PPT
	1260 ppm STEL [PPT-CT] 3000 mg/m ³ STEL [PPT-CT]

Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Xylenes (o-, m-, p- isomers)	1330-20-7
ACGIH:	100 ppm TWA
	150 ppm STEL
Europe:	50 ppm TWA (pure) 221 mg/m ³ TWA (pure)
	Possibility of significant uptake through the skin (pure)
	100 ppm STEL (pure) 442 mg/m ³ STEL (pure)
OSHA (US):	100 ppm TWA 435 mg/m ³ TWA
Mexico:	100 ppm TWA VLE-PPT 435 mg/m ³ TWA VLE-PPT
	150 ppm STEL [PPT-CT] 655 mg/m ³ STEL [PPT-CT]
Ethylbenzene	100-41-4
ACGIH:	20 ppm TWA
NIOSH:	100 ppm TWA 435 mg/m ³ TWA
	125 ppm STEL 545 mg/m ³ STEL
	800 ppm IDLH (10% LEL)
Europe:	100 ppm TWA 442 mg/m ³ TWA
	Possibility of significant uptake through the skin
	200 ppm STEL 884 mg/m ³ STEL
OSHA (US):	100 ppm TWA 435 mg/m ³ TWA
Mexico:	100 ppm TWA VLE-PPT 435 mg/m ³ TWA VLE-PPT



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

	125 ppm STEL [PPT-CT] 545 mg/m ³ STEL [PPT-CT]
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ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Acetone (67-64-1)

25 mg/l Medium: urine Time: end of shift Parameter: Acetone (non-specific)

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

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

Ethylbenzene (100-41-4)

0.15 g/g creatinine Medium: urine Time: end of shift Parameter: Sum of mandelic acid and phenyl glyoxylic acid (nonspecific)

Engineering Controls

Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Thoroughly clean and dry contaminated clothing before reuse.

Respiratory Protection

Respirators depend on exposure level. SCBA with full face piece recommended during change outs and available in case of emergency.

Glove Recommendations

Wear appropriate chemical resistant gloves.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless liquid	Physical State	liquid
Odor	Not available	Color	colorless
Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Point	56.1 - 137 °C
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	3.6	Flammability (solid, gas)	Not available

Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Autoignition Temperature	465 °C (869 °F)	Flash Point	-17 °C
Lower Explosive Limit	1 %	Decomposition temperature	Not available
Upper Explosive Limit	12.8 %	Vapor Pressure	97 Torr
Vapor Density (air=1)	2.85	Specific Gravity (water=1)	Not available
Water Solubility	soluble	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	0.84 g/ml
Molecular Weight	Not available		

Other Information

No information available for the product.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No hazard expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Keep away from incompatible materials.

Incompatible Materials

Oxidizing agents, acids, bases, aldehydes, amines, ammonia, reducing agents, and chlorine compounds.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, Hydrocarbon

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Vapor or mist may cause respiratory tract irritation. May cause nausea, dizziness, drowsiness and headache, central nervous system damage, liver damage, kidney damage

Skin Contact

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Eye Contact

Causes serious eye irritation.

Ingestion

May be fatal if swallowed and enters airways. May cause gastrointestinal irritation,

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:

Acetone (67-64-1)

- Oral LD₅₀ - Rat 5800 mg/kg
- Dermal LD₅₀ - Rabbit >15700 mg/kg
- Inhalation LC₅₀ - Rat 50100 mg/m³ 8 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

Ethylbenzene (100-41-4)

- Oral LD₅₀ - Rat 3500 mg/kg
- Dermal LD₅₀ - Rabbit 15400 mg/kg
- Inhalation LC₅₀ - Rat 17.4 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

May be fatal if swallowed and enters airways. Skin irritation, eye irritation and respiratory tract irritation, drowsiness and dizziness.

Delayed Effects

Cancer, reproductive effects, central nervous system damage, digestive system damage, respiratory system damage, blood damage, liver damage, kidney damage, and ear damage.

Irritation/Corrosivity Data

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

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Component Carcinogenicity

Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human 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))
Ethylbenzene	100-41-4
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 4 (no significant contribution to human cancer)
OSHA:	Present

Carcinogenicity

Suspected of causing cancer.

Germ Cell Mutagenicity

No data available.

Tumorigenic Data

No data available

Reproductive Toxicity

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Central nervous system, respiratory system

Specific Target Organ Toxicity - Repeated Exposure

Central nervous system, digestive system, respiratory system, blood, ears

Aspiration hazard

May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure

Kidney, skin disorders, lung disorder, heart disorders

Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

Acetone	67-64-1
Fish:	LC ₅₀ 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L LC ₅₀ 96 h Pimephales promelas 6210 - 8120 mg/L [static] LC ₅₀ 96 h Lepomis macrochirus 8300 mg/L
Invertebrate:	EC ₅₀ 48 h Daphnia magna 10294 - 17704 mg/L [Static] EPA EC ₅₀ 48 h Daphnia magna 12600 - 12700 mg/L IUCLID
Xylenes (o-, m-, p-isomers)	1330-20-7
Fish:	LC ₅₀ 96 h Pimephales promelas 13.4 mg/L [flow-through] LC ₅₀ 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static] LC ₅₀ 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L LC ₅₀ 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through] LC ₅₀ 96 h Lepomis macrochirus 19 mg/L LC ₅₀ 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static] LC ₅₀ 96 h Pimephales promelas 23.53 - 29.97 mg/L [static] LC ₅₀ 96 h Cyprinus carpio 780 mg/L [semi-static] LC ₅₀ 96 h Cyprinus carpio >780 mg/L LC ₅₀ 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static]
Invertebrate:	EC ₅₀ 48 h water flea 3.82 mg/L; LC ₅₀ 48 h Gammarus lacustris 0.6 mg/L
Ethylbenzene	100-41-4
Fish:	LC ₅₀ 96 h Oncorhynchus mykiss 11 - 18 mg/L [static] LC ₅₀ 96 h Oncorhynchus mykiss 4.2 mg/L [semi-static] LC ₅₀ 96 h Pimephales promelas 7.55 - 11 mg/L [flow-through] LC ₅₀ 96 h Lepomis macrochirus 32 mg/L [static] LC ₅₀ 96 h Pimephales promelas 9.1 - 15.6 mg/L [static] LC ₅₀ 96 h Poecilia reticulata 9.6 mg/L [static]
Algae:	EC ₅₀ 72 h Pseudokirchneriella subcapitata 4.6 mg/L IUCLID EC ₅₀ 96 h Pseudokirchneriella subcapitata >438 mg/L IUCLID EC ₅₀ 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L [static] EPA EC ₅₀ 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L [static] EPA
Invertebrate:	EC ₅₀ 48 h Daphnia magna 1.8 - 2.4 mg/L IUCLID



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Persistence and Degradability

No data available.

Bio accumulative Potential

No data available.

Mobility

No data available.

Other Toxicity

No information available for the product.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: FLAMMABLE LIQUIDS, N.O.S., (Contains: Acetone, Xylene)

Hazard Class: 3

UN/NA #: UN1993

Packing Group: II

Required Label(s): 3

TDG Information:

Shipping Name: FLAMMABLE LIQUID, N.O.S., (Contains: Acetone, Xylene)

Hazard Class: 3

UN#: UN1993

Packing Group: II

Required Label(s): 3

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.

Xylenes (o-, m-, p- isomers)	1330-20-7
IBC Code:	Category Y
Ethylbenzene	100-41-4
IBC Code:	Category Y



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

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.

Acetone	67-64-1
CERCLA:	5000 lb final RQ; 2270 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
Ethylbenzene	100-41-4
SARA 313:	0.1 % de minimis concentration
CERCLA:	1000 lb final RQ; 454 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C) 2017 reporting categories

Flammable; Carcinogenicity; Reproductive Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Aspiration Hazard

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
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes
Ethylbenzene	100-41-4	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 cancer

Ethylbenzene	100-41-4
Carc:	carcinogen, 6/11/2004

Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

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

Acetone	67-64-1
	1 %
Ethylbenzene	100-41-4
	0.1 %

Component Analysis - Inventory

Acetone (67-64-1)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes

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

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

Ethylbenzene (100-41-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

Section 16 - OTHER INFORMATION

Summary of Changes

New SDS: 6/2/2017

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 New Chemical Substance Inventory; 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; 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; 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; NDSL - Non-Domestic Substance List (Canada); 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; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorization, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; 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); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, CCWI Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein



Safety Data Sheet

Material Name: PVC and KEE HP Membrane Cleaner

Product #: 329729

may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.