

## 1. Identification

<b>Product identifier</b>	<b>PRIMER-C</b>
<b>Other means of identification</b>	
<b>Sales Code</b>	1133S2
<b>Recommended use</b>	Primer
<b>Recommended restrictions</b>	Industrial use only.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Name</b>	Shin-Etsu Silicones of America, Inc.
<b>Address</b>	1150 Damar Drive, Akron, OH 44305 USA
<b>Contact</b>	Regulation compliance group
<b>Telephone Number</b>	+1-330-630-9860
<b>Fax Number</b>	+1-330-630-9855
<b>Emergency Phone Number</b>	Chemtrec: +1-800-424-9300 (Within US) Chemtrec: +1-703-527-3887 (Outside US)

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2 (central nervous system, hearing organs)
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 3
<b>OSHA defined hazards</b>	Not classified.	

\*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

**Label elements**



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. Suspected of damaging the unborn child. May cause drowsiness or dizziness. May cause damage to organs (central nervous system, hearing organs) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/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 breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

<b>Response</b>	In case of fire: Use water fog, foam, dry chemical powder or carbon dioxide(CO <sub>2</sub> ) to extinguish. If swallowed: Immediately call a poison center/doctor/. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If inhaled: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash it before reuse.
<b>Storage</b>	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.
<b>Substance(s) formed under the condition of use</b>	This product reacts with water, moisture or humid air to evolve following compounds: Methanol 2-Propanol
<b>HMIS® ratings</b>	Health: 3* Flammability: 3 Physical hazard: 0

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Petroleum naphtha(Contains Toluene, Ethylbenzene and Xylene)		64742-48-9	40 - < 50
Toluene		108-88-3	30 - < 40
Alkoxide*		Proprietary*	10 - < 20
Alkoxysilane*		Proprietary*	10 - < 20

#### Decomposition

Chemical name	CAS number	%
2-Propanol	67-63-0	
Methanol	67-56-1	

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
<b>Eye contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Get medical attention immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.
<b>Most important symptoms/effects, acute and delayed</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Alcohol resistant foam. Powder.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.

<b>Specific hazards arising from the chemical</b>	By heating and fire, harmful vapors/gases may be formed. Nitrogen oxides. (corrosive)
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.
<b>General fire hazards</b>	Highly flammable liquid and vapor.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Ventilate closed spaces before entering them. Wear appropriate personal protective equipment.
<b>Methods and materials for containment and cleaning up</b>	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage with non-combustible, absorbent material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Prevent entry into waterways, sewer, basements or confined areas.  Small Spills: Clean surface thoroughly to remove residual contamination.  Never return spills in original containers for re-use.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

## 7. Handling and storage

<b>Precautions for safe handling</b>	All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Vapors may form explosive mixtures with air. Provide adequate ventilation. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. Use personal protective equipment as required. Wash hands thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. Do not empty into drains. Use care in handling/storage. Do not breathe mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Keep away from heat, sparks and open flame. Store in cool place. Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight. Keep in original container.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	PEL	435 mg/m <sup>3</sup> 100 ppm
Xylene (CAS 1330-20-7)	PEL	435 mg/m <sup>3</sup> 100 ppm
Decomposition	Type	Value
2-Propanol (CAS 67-63-0)	PEL	980 mg/m <sup>3</sup> 400 ppm
Methanol (CAS 67-56-1)	PEL	260 mg/m <sup>3</sup> 200 ppm

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling TWA	300 ppm 200 ppm

ACGIH		
Components	Type	Value
Petroleum naphtha(Contains Toluene, Ethylbenzene and Xylene) (CAS 64742-48-9)	TWA	100 ppm
US. ACGIH Threshold Limit Values		
Components	Type	Value
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
Toluene (CAS 108-88-3)	TWA	20 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm
Decomposition		
Components	Type	Value
2-Propanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Components	Type	Value
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m <sup>3</sup>
		125 ppm
	TWA	435 mg/m <sup>3</sup>
		100 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m <sup>3</sup>
		150 ppm
	TWA	375 mg/m <sup>3</sup>
		100 ppm
Decomposition		
Components	Type	Value
2-Propanol (CAS 67-63-0)	STEL	1225 mg/m <sup>3</sup>
		500 ppm
	TWA	980 mg/m <sup>3</sup>
		400 ppm
Methanol (CAS 67-56-1)	STEL	325 mg/m <sup>3</sup>
		250 ppm
	TWA	260 mg/m <sup>3</sup>
		200 ppm

#### Biological limit values

##### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*
Decomposition		Determinant	Specimen	Sampling Time
2-Propanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*

\* - For sampling details, please see the source document.

## Exposure guidelines

### US. ACGIH Threshold Limit Values

Benzene (Impurity) (CAS 71-43-2)	Can be absorbed through the skin.
Methanol (CAS 67-56-1)	Can be absorbed through the skin.

### US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

BENZENE (CAS 71-43-2)	Can be absorbed through the skin.
METHYL ALCOHOL; METHANOL (CAS 67-56-1)	Can be absorbed through the skin.
TOLUENE; TOLUOL (CAS 108-88-3)	Can be absorbed through the skin.

### US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

Methanol (CAS 67-56-1)	Skin designation applies.
Toluene (CAS 108-88-3)	Skin designation applies.

### US. NIOSH: Pocket Guide to Chemical Hazards

Methanol (CAS 67-56-1)	Can be absorbed through the skin.
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### US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

Methanol (CAS 67-56-1)	Can be absorbed through the skin.
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**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tightly sealed safety glasses according to EN 166.

#### Skin protection

**Hand protection** Wear protective gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using, do not eat, drink or smoke. Do not get in eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

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## 9. Physical and chemical properties

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### Appearance

<b>Form</b>	Liquid.
<b>Color</b>	Colorless, transparent
<b>Odor</b>	Solvent odor
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not applicable
<b>Initial boiling point and boiling range</b>	> 203 °F (> 95 °C) [Petroleum naphtha]
<b>Flash point</b>	28.4 °F (-2 °C) Closed Cup
<b>Evaporation rate</b>	< 1 (Butyl Acetate=1)
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	1.0 % v/v [Petroleum naphtha]
<b>Flammability limit - upper (%)</b>	7.0 % v/v [Petroleum naphtha]
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	5.9 kPa ( 25 °C ) [Petroleum naphtha]
<b>Vapor density</b>	3.6 (air=1) [Petroleum naphtha]
<b>Relative density</b>	0.82 ( 25 °C )
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Insoluble

Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	518 °F (270 °C) [Petroleum naphtha]
Decomposition temperature	Not available.
Viscosity	No data
Other information	
Molecular weight	Not applicable

### 10. Stability and reactivity

Reactivity	No hazardous reaction known under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	This product reacts with water, moisture or humid air to evolve following compounds: Methanol 2-Propanol Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides.

### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	May be fatal if swallowed and enters airways.
Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Narcosis. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

#### Information on toxicological effects

##### Acute toxicity

Components	Species	Test Results
Alkoxide (CAS Proprietary)		
Acute		
Oral		
LD50	Rat	7460 mg/kg
Alkoxysilane (CAS Proprietary)		
Acute		
Dermal		
LD50	Rabbit	3.97 ml/kg
Inhalation		
LC50		5.3 mg/l, 4 hr
Oral		
LD50	Rat	7010 - 16900 mg/kg
Subacute		
Oral		
NOAEL	Rat	> 1000 mg/kg, 28 days

Components	Species	Test Results
<b>Ethylbenzene (CAS 100-41-4)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	17800 mg/kg
<i>Oral</i>		
LD50	Rat	3500 mg/kg
<b>Toluene (CAS 108-88-3)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12124 mg/kg 14.1 ml/kg
<i>Inhalation</i>		
LC50	Mouse	400 ppm, 24 hours
<i>Oral</i>		
LD50	Rat	5000 mg/kg 2.6 g/kg
<b>Xylene (CAS 1330-20-7)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 43 g/kg
<i>Inhalation</i>		
LC50	Mouse	3907 ppm, 6 hours
	Rat	6350 ppm, 4 hours
<i>Oral</i>		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
<b>Decomposition</b>		
<b>Species</b>		
<b>Test Results</b>		
<b>2-Propanol (CAS 67-63-0)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12800 mg/kg
<i>Oral</i>		
LD50	Mouse	3600 mg/kg
	Rabbit	5.03 g/kg
	Rat	4.7 g/kg
<b>Methanol (CAS 67-56-1)</b>		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	15800 mg/kg
<i>Inhalation</i>		
LC50	Rat	64000 ppm, 4 Hours 87.5 mg/l, 6 Hours
<i>Oral</i>		
LD50	Mouse	7300 mg/kg
	Rabbit	14.4 g/kg
	Rat	5628 mg/kg
<b>Skin corrosion/Irritation</b>	Causes skin irritation. [Toluene] [Xylene]	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage. [Alkoxysilane ] Causes serious eye irritation. [Alkoxide] [2-Propanol] Causes eye irritation. [Toluene]	

**Respiratory or skin sensitization****Respiratory sensitization** Not available.**Skin sensitization** Not available.**Germ cell mutagenicity** Not available.**Carcinogenicity****IARC Monographs. Overall Evaluation of Carcinogenicity**

Benzene(Impurity) (CAS 71-43-2)	1 Carcinogenic to humans.
Ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Benzene(Impurity) (CAS 71-43-2) Cancer

**US. National Toxicology Program (NTP) Report on Carcinogens**

Benzene(Impurity) (CAS 71-43-2) Known To Be Human Carcinogen.

**Reproductive toxicity** Suspected of damaging the unborn child. [Toluene]

**Specific target organ toxicity - single exposure** May cause damage to the following organs.  
Narcotic effects. [Toluene]  
Respiratory tract irritation. Narcotic effects. [Alkoxide]  
Optic nerves. Central nervous system. [Methanol]  
Narcotic effects. [2-Propanol]

**Specific target organ toxicity - repeated exposure** May cause damage to the following organs through prolonged or repeated exposure:  
Central nervous system. [Toluene]  
Hearing organs. [Ethylbenzene]

**Aspiration hazard** May be fatal if swallowed and enters airways. [Petroleum naphtha] [Toluene]  
[Xylene] [Ethylbenzene]

**Further information** This product reacts with water, moisture or humid air to evolve following compounds:  
Methanol  
2-Propanol

**12. Ecological information**

**Ecotoxicity** Toxic to aquatic life. [Toluene] [Alkoxysilane] [Xylene] [Ethylbenzene]  
Harmful to aquatic life with long lasting effects. [Toluene] [Ethylbenzene]

Components	Species	Test Results
Alkoxysilane (CAS Proprietary)		
<b>Aquatic</b>		
Algae	EC50	Green algae ( <i>Selenastrum capricornutum</i> ) 350 mg/l, 72 hr (Growth rate)
		250 mg/l, 72 hr (Biomass)
Crustacea	EC50	Daphnia 473 mg/l, 48 hr
	NOEC	Daphnia 100 mg/l, 21 days
Fish	LC50	Carp 55 mg/l, 96 hr
		Rainbow Trout 237 mg/l, 96 hr
		Zebra fish 4.9 mg/l, 96 hr
Ethylbenzene (CAS 100-41-4)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 1.37 - 4.4 mg/l, 48 hours
Fish	LC50	Atlantic silverside ( <i>Menidia menidia</i> ) 5.1 mg/l, 96 hours
Toluene (CAS 108-88-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon ( <i>Oncorhynchus kisutch</i> ) 5.5 mg/l, 96 hours



Components	Species	Test Results
<b>Xylene (CAS 1330-20-7)</b>		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss) 6.702 - 10.032 mg/l, 96 hours
<b>Decomposition</b>		
<b>Species</b>		
<b>Test Results</b>		
<b>2-Propanol (CAS 67-63-0)</b>		
<b>Aquatic</b>		
Fish	LC50	Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours
<b>Methanol (CAS 67-56-1)</b>		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
<b>Persistence and degradability</b>	Causes easily hydrolysis in water or atmosphere. [Alkoxysilane].	
<b>Bioaccumulative potential</b>	Not available.	
<b>Mobility in soil</b>	Not available.	
<b>Other adverse effects</b>	Not available.	

### 13. Disposal considerations

**Disposal instructions** Follow applicable Federal, State and Local regulations.

### 14. Transport information

#### DOT

**UN number** UN1133  
**UN proper shipping name** Adhesives  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Label(s)** 3  
**Packing group** II  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Special provisions** 149, B52, IB2, T4, TP1, TP8  
**Packaging exceptions** 150  
**Packaging non bulk** 173  
**Packaging bulk** 242

#### IATA

**UN number** UN1133  
**UN proper shipping name** Adhesives containing flammable liquid  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Packing group** II  
**Environmental hazards** No.  
**ERG Code** 3L  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Other information**  
**Passenger and cargo aircraft** Allowed.  
**Cargo aircraft only** Allowed.

#### IMDG

**UN number** UN1133  
**UN proper shipping name** ADHESIVES containing flammable liquid  
**Transport hazard class(es)**  
**Class** 3  
**Subsidiary risk** -  
**Packing group** II

**Environmental hazards**

Marine pollutant

No.

EmS

F-E, S-D

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This product is not intended to be transported in bulk.

DOT



IATA; IMDG



**15. Regulatory information**

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Benzene(Impurity) (CAS 71-43-2)

- Cancer
- Central nervous system
- Blood
- Aspiration
- Skin
- Eye
- respiratory tract irritation
- Flammability

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Toluene	108-88-3	30 - < 40

**US state regulations**

**US. Massachusetts RTK - Substance List**

- Benzene(Impurity) (CAS 71-43-2)
- Ethylbenzene (CAS 100-41-4)
- Toluene (CAS 108-88-3)
- Xylene (CAS 1330-20-7)

**US. New Jersey Worker and Community Right-to-Know Act**

- Benzene(Impurity) (CAS 71-43-2)
- Ethylbenzene (CAS 100-41-4)
- Toluene (CAS 108-88-3)
- Xylene (CAS 1330-20-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Benzene(Impurity) (CAS 71-43-2)  
 Ethylbenzene (CAS 100-41-4)  
 Toluene (CAS 108-88-3)  
 Xylene (CAS 1330-20-7)

**US. Rhode Island RTK**

Benzene(Impurity) (CAS 71-43-2)  
 Ethylbenzene (CAS 100-41-4)  
 Toluene (CAS 108-88-3)  
 Xylene (CAS 1330-20-7)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Benzene(Impurity) (CAS 71-43-2) Listed: February 27, 1987  
 Ethylbenzene (CAS 100-41-4) Listed: June 11, 2004

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

Benzene(Impurity) (CAS 71-43-2) Listed: December 26, 1997  
 Toluene (CAS 108-88-3) Listed: January 1, 1991

**US - California Proposition 65 - CRT: Listed date/Female reproductive toxin**

Toluene (CAS 108-88-3) Listed: August 7, 2009

**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

Benzene(Impurity) (CAS 71-43-2) Listed: December 26, 1997

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

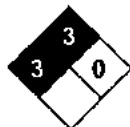
\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

Issue date 05-14-2015  
 Version # 01  
 NFPA ratings Health: 3  
 Flammability: 3  
 Instability: 0

NFPA ratings



**Disclaimer**

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.

**Revision Information**

Product and Company Identification: Product and Company Identification  
Composition / Information on Ingredients: Additional Components  
Physical & Chemical Properties: Multiple Properties  
Toxicological Information: Toxicological Data  
Ecological Information: Ecotoxicity  
Transport Information: Hazreg Values Transportation  
Regulatory Information: Regulatory Information  
Material Attributes & Uses; Experimental Data: Material Attributes  
HazReg Data: Pacific Rim  
GHS: Supplements

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