

**SAFETY DATA SHEET****1. Identification**

<b>Product identifier</b>	KM-722T
<b>Other means of identification</b>	
<b>Sales Code</b>	GKFVS0
<b>Recommended use</b>	Release agents, Paper release agents Rubber mold release agent
<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 3
<b>Health hazards</b>	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity, repeated exposure	Category 2 (hearing organs)
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute 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****Signal word**

Danger

**Hazard statement**

Flammable liquid and vapor. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause damage to organs (hearing organs) through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Harmful to aquatic life.

**Precautionary statement****Prevention**

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 dust/fume/gas/mist/vapors/spray. 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.

**Response**

In case of fire: Use water fog, foam, dry chemical powder or carbon dioxide(CO2) 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. 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. Take off contaminated clothing and wash before reuse.

<b>Storage</b>	Store in a well-ventilated place. Keep cool. 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>HMIS® ratings</b>	Health: 2* Flammability: 3 Physical hazard: 0

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethylbenzene		100-41-4	10 - < 20
Xylene		1330-20-7	10 - < 20
Polyether compound*		Proprietary*	1 - < 3

\*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>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing 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. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. 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. 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>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	By heating and fire, harmful vapors/gases may be formed.
<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>	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. Do not touch or walk through spilled material. Ventilate closed spaces before entering them. Wear appropriate personal protective equipment. Do not breathe mist or vapor.
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**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

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**7. Handling and storage**

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**Precautions for safe handling**

All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Provide adequate ventilation. Use care in handling/storage. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using, do not eat, drink or smoke. Take precautionary measures against static discharges. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Do not breathe mist or vapor. Avoid prolonged exposure. Wear personal protective equipment.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Keep away from heat, sparks and open flame. 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. Do not keep the container below 0 degrees C to avoid coagulation. Keep in original container. This product contains water. Therefore, please note that there is a possibility that the container corrodes when you keep a long term in a metallic container.

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**8. Exposure controls/personal protection**

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**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

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	STEL	545 mg/m <sup>3</sup>
	TWA	125 ppm 435 mg/m <sup>3</sup> 100 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	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

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

<b>Appropriate engineering controls</b>	Explosion-proof general and local exhaust ventilation. Provide eyewash station.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Tightly sealed safety glasses according to EN 166.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.  If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Avoid contact with skin. Avoid contact with eyes. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Appearance

<b>Form</b>	Liquid.
<b>Color</b>	White.
<b>Odor</b>	Solvent odor
<b>Odor threshold</b>	Not available.
<b>pH</b>	3 - 7.5
<b>Melting point/freezing point</b>	32 °F (0 °C) [Water]
<b>Initial boiling point and boiling range</b>	212 °F (100 °C) [Water]
<b>Flash point</b>	87.8 °F (31 °C) Closed Cup
<b>Evaporation rate</b>	< 1 (Butyl Acetate=1)
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	1.0 % v/v [Xylene]
<b>Flammability limit - upper (%)</b>	7.0 % v/v [Xylene]
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.86 kPa ( 25 °C ) [Xylene]
<b>Vapor density</b>	3.7 (air=1) [Xylene]
<b>Relative density</b>	0.96 ( 25 °C )
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Dispersion
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	> 572 °F (> 300 °C)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	16 mPa·s ( 25 °C )
<b>Other information</b>	
<b>Molecular weight</b>	Not applicable

## 10. Stability and reactivity

<b>Reactivity</b>	No hazardous reaction known under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

<b>Conditions to avoid</b>	None known.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	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. Formaldehyde.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
<b>Inhalation</b>	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	17800 mg/kg
<i>Oral</i>		
LD50	Rat	3500 mg/kg
Polyether compound (CAS Proprietary)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	500 - 2000 mg/kg
Xylene (CAS 1330-20-7)		
<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>Skin corrosion/irritation</b>	Causes skin irritation. [Xylene]	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage. [Polyether compound]	

#### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.

#### Carcinogenicity

##### IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)  
Xylene (CAS 1330-20-7)

2B Possibly carcinogenic to humans.  
3 Not classifiable as to carcinogenicity to humans.

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

Not listed.

<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to the following organs through prolonged or repeated exposure: Hearing organs. [Ethylbenzene(Component contained in the industrial Xylene)]
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. [Xylene] [Ethylbenzene(Component contained in the industrial Xylene)]
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.

## 12. Ecological information

<b>Ecotoxicity</b>	Toxic to aquatic life. [Xylene] [Ethylbenzene(Component contained in the industrial Xylene)] [Polyether compound] Harmful to aquatic life with long lasting effects. [Ethylbenzene(Component contained in the industrial Xylene)]
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Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Atlantic silverside (Menidia menidia)
Polyether compound (CAS Proprietary)		
<b>Aquatic</b>		
Algae	EC50	Algae
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Zebra danio (Danio rerio)
Xylene (CAS 1330-20-7)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)
<b>Persistence and degradability</b>	Not available.	
<b>Bioaccumulative potential</b>	Not available.	
<b>Mobility in soil</b>	Not available.	
<b>Other adverse effects</b>	Not available.	

## 13. Disposal considerations

<b>Disposal instructions</b>	Follow applicable Federal, State and Local regulations.
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## 14. Transport information

<b>DOT</b>	
<b>UN number</b>	UN1866
<b>UN proper shipping name</b>	Resin solution
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Packing group</b>	III
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	B1, B52, IB3, T2, TP1
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	173
<b>Packaging bulk</b>	242
<b>IATA</b>	
<b>UN number</b>	UN1866
<b>UN proper shipping name</b>	Resin solution flammable

**Transport hazard class(es)**

Class	3
Subsidiary risk	-
Packing group	III
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	UN1866
UN proper shipping name	RESIN SOLUTION flammable

**Transport hazard class(es)**

Class	3
Subsidiary risk	-

Packing group	III
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**Environmental hazards**

Marine pollutant	No.
EmS	F-E, S-E*

**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****DOT****IATA; IMDG**

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## 15. Regulatory information

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**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)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Ethylbenzene	100-41-4	10 - < 20

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Xylene	1330-20-7	10 - < 20

**US state regulations****US. Massachusetts RTK - Substance List**

Ethylbenzene (CAS 100-41-4)  
Xylene (CAS 1330-20-7)

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

Ethylbenzene (CAS 100-41-4)  
Xylene (CAS 1330-20-7)

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

Ethylbenzene (CAS 100-41-4)  
Xylene (CAS 1330-20-7)

**US. Rhode Island RTK**

Ethylbenzene (CAS 100-41-4)  
Xylene (CAS 1330-20-7)

**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

Ethylbenzene (CAS 100-41-4)      Listed: June 11, 2004

**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	05-27-2015
Revision date	07-10-2015
Version #	02
NFPA ratings	Health: 2 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**

This document has undergone significant changes and should be reviewed in its entirety.