# SAFETY DATA SHEET



1. Identification

Product identifier X-832-299A

Other means of identification Not available.

Recommended use Industrial use only

Recommended restrictions Industrial use only.

Manufacturer/Importer/Supplier/Distributor information

Name Shin-Etsu Silicones of America, Inc.
Address 1150 Damar Drive, Akron, OH 44305 USA

**Contact** Regulation compliance group

**Telephone Number** +1-330-630-9860 **Fax Number** +1-330-630-9855

Emergency Phone Number Chemtrec: +1-800-424-9300 (Within US)

Chemtrec: +1-703-527-3887 (Outside US)

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Reproductive toxicity (the unborn child) Category 2

Environmental hazards Not classified.

OSHA defined hazards Not classified.

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

#### Label elements



Signal word Warning

Hazard statement Suspected of damaging the unborn child.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention.

Storage Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information HMIS® ratings

None. Health: 1\*

Flammability: 0 Physical hazard: 0

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
TOI UENE		108-88-3	< 0.2

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

4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Wash skin with soap and water.		

Material name: X-832-299A SDS US

Eye contact

Rinse immediately with plenty of water for at least 15 minutes.

Direct contact with eyes may cause temporary irritation.

Ingestion

Rinse mouth. Get medical attention immediately.

Most important

symptoms/effects, acute and

delayed

Treat symptomatically.

Not available.

Indication of immediate medical attention and special treatment needed

**General information** 

IF exposed or concerned: Get medical advice/attention.

# 5. Fire-fighting measures Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

General fire hazards

By heating and fire, harmful vapors/gases may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

Move containers from fire area if you can do so without risk.

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Wear appropriate personal protective equipment.

Eliminate sources of ignition.

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.

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. Collect for salvage or disposal.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

# 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. Do not breathe mist or vapor. Avoid prolonged exposure. Provide adequate ventilation. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. When curing provide adequate ventilation. When curing do not breathe vapor.

Conditions for safe storage, including any incompatibilities Store locked up. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep in original container.

## 8. Exposure controls/personal protection

# Occupational exposure limits

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

Components	Туре	Value	
TOLUENE (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
<b>US. ACGIH Threshold Limit Values</b>	6		
Components	Туре	Value	
TOLUENE (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
TOLUENE (CAS 108-88-3)	STEL	560 mg/m3	

Material name: X-832-299A

Components Type Value

**TWA** 

150 ppm 375 mg/m3 100 ppm

#### **Biological limit values**

ACGIH Biological Exp	osure Indices
----------------------	---------------

	omponents	Value	Determinant	Specimen	Sampling Time
T	OLUENE (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	*

<sup>\* -</sup> For sampling details, please see the source document.

### **Exposure guidelines**

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

TOLUENE; TOLUOL (CAS 108-88-3)

Can be absorbed through the skin.

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

TOLUENE (CAS 108-88-3) Skin designation applies.

Appropriate engineering

controls

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 appropriate chemical resistant gloves.Other No special protective equipment required.

**Respiratory protection** If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge.

If ventilation is insufficient when curing use chemical respirator with organic vapor cartridge. 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. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

### 9. Physical and chemical properties

#### **Appearance**

Form Liquid.
Color Blue.

Odor Odorless

Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.
Initial boiling point and boiling Not available.

range

Flash point > 221 °F (> 105 °C) Closed Cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Material name: X-832-299A SDS US

24509 Version #: 01 Issue date: 04-27-2015

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) No

Not available.
Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 0.97

Solubility(ies)

Solubility (water) Not soluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 8.09 lb/gal

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive 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

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

IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

#### **Acute toxicity**

Product Species		Test Results		
X-832-299A (CAS Mixture)				
Acute				
Dermal				
LD50	Rabbit	9400 ml/kg estimated		
Oral				
LD50	Rat	1733.3333 g/kg estimated		
Other				
LD50	Mouse	39333.3333 mg/kg estimated		

Material name: X-832-299A SDS US

Components **Species Test Results TOLUENE (CAS 108-88-3) Acute** Dermal LD50 Rabbit 12124 mg/kg 14.1 ml/kg Inhalation LC50 Mouse 5320 ppm, 8 Hours 400 ppm, 24 Hours Rat 26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours Oral LD50 Rat 2.6 g/kg Other LD50 Mouse 59 mg/kg Rat 1332 mg/kg Skin corrosion/irritation Causes skin irritation. [Toluene] Causes eye irritation. [Toluene] Serious eye damage/eye irritation Respiratory or skin sensitization Respiratory sensitization Not available. Skin sensitization Not available. Germ cell mutagenicity Not available. Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. IARC Monographs. Overall Evaluation of Carcinogenicity **TOLUENE (CAS 108-88-3)** 3 Not classifiable as to carcinogenicity to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. May cause harm to breastfed babies. Reproductive toxicity [Toluene] Suspected of damaging the unborn child. Suspected of damaging the unborn child. Specific target organ toxicity -May cause damage to the following organs. Narcotic effects. [Toluene] single exposure Specific target organ toxicity -May cause damage to the following organs through prolonged or repeated exposure: Central nervous system. [Toluene] repeated exposure **Aspiration hazard** May be fatal if swallowed and enters airways. [Toluene] Prolonged inhalation may be harmful. **Chronic effects Further information** This product can generate formaldehyde at approximately 150 degrees C(300'F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 degrees C(300'F) and above in the presence of air. 12. Ecological information **Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects. [Toluene] **Product Species Test Results** X-832-299A (CAS Mixture) **Aquatic** Crustacea EC50 Daphnia 6815.0002 mg/l, 48 hours estimated

Material name: X-832-299A SDS US

Fish

LC50

Fish

58832.5333 mg/l, 96 hours estimated

Components Species Test Results

**TOLUENE (CAS 108-88-3)** 

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) 5.46 - 9.83 mg/l, 48 hours

Fish LC50 Coho salmon, silver salmon 8.11 mg/l, 96 hours

(Oncorhynchus kisutch)

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

TOLUENE 2.73

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

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

14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

This product is not intended to be transported in bulk.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313 (TRI reporting)

**US state regulations** 

US. Massachusetts RTK - Substance List

**TOLUENE (CAS 108-88-3)** 

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

**TOLUENE (CAS 108-88-3)** 

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

**TOLUENE (CAS 108-88-3)** 

US. Rhode Island RTK

**TOLUENE (CAS 108-88-3)** 

**US. California Proposition 65** 

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

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

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

Material name: X-832-299A sps us

#### **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

<sup>\*</sup>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** 04-27-2015

Version # 0°

NFPA ratings Health: 0

Flammability: 0 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.

Material name: X-832-299A sps us