SAFETY DATA SHEET



1. Identification

Product identifier KE-3475-T

Other means of identification

1382S0 Sales Code Recommended use RTV rubbers

RTV rubber for electrical, electronic and general industry (coating),

RTV rubber for electrical, electronic and general industry (gluing and sealing)

Industrial use only. **Recommended restrictions** Manufacturer/Importer/Supplier/Distributor information

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

Regulation compliance group Contact

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

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

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

2. Hazard(s) identification

Physical hazards Flammable liquids Category 2 Skin corrosion/irritation **Health hazards** Category 2 Serious eye damage/eye irritation Category 2A Sensitization, skin Category 1B

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

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

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May

cause an allergic skin reaction.

Precautionary statement

Prevention 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after

handling. Contaminated work clothing must not be allowed out of the workplace.

In case of fire: Use water fog, foam, dry chemical powder or carbon dioxide(CO2) to extinguish. IF Response

> ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of soap and water. If skin irritation or rash 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. If eye irritation persists: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse.

Store in a well-ventilated place. Keep cool. Storage

None known.

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

Hazard(s) not otherwise

classified (HNOC)

Supplemental information None.

Material name: KE-3475-T SDS US Substance(s) formed under the condition of use

This product reacts with water, moisture or humid air to evolve following compounds: Acetone

Health: 2 Flammability: 3 Physical hazard: 0

3. Composition/information on ingredients

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HMIS® ratings

Chemical name	Common name and synonyms	CAS number	%
Alkenoxysilane*		Proprietary*	3 - < 5
Alkoxysilane*		Proprietary*	1 - < 3
Organosilane*		Proprietary*	< 1

Decomposition

Chemical name	CAS number	%
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Acetone 67-64-1

*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.

Remove contaminated clothing immediately and wash skin with soap and water. For minor skin Skin contact

contact, avoid spreading material on unaffected skin. If skin irritation or rash occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present

Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling,

and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin

Rinse mouth. Get medical attention immediately. Ingestion

reaction.

Most important

Eye contact

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information

Treat symptomatically.

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

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Carbon dioxide (CO2).

None known.

Specific hazards arising from

the chemical

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

Nitrogen oxides. (corrosive)

Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

General fire hazards

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.

Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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.

Material name: KE-3475-T SDS US

424 Version #: 01 Issue date: 03-26-2015

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: 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.

Small Spills: 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 discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

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.

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 smoke. Take precautionary measures against static discharges. Use personal protective equipment as required. Wash hands thoroughly after handling.

Do not breathe mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.

Conditions for safe storage, including any incompatibilities

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) Decomposition Type

Decomposition	Type `	, Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	es		
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Decomposition	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices

Decomposition Decomposition	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*

^{* -} 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

Explosion-proof general and local exhaust ventilation. Provide eyewash station.

Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24

250 ppm

hours after application.

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.

Material name: KE-3475-T SDS US

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. Avoid contact with skin. Avoid contact with eyes. 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.

9. Physical and chemical properties

Appearance

Form Paste.
Color Milk-white
Odor Acetone odor
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not applicable
Initial boiling point and boiling Not applicable

range

Flash point 62.6 °F (17 °C) Closed Cup Evaporation rate <1 (Butyl Acetate=1)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

2.1 % v/v [Acetone]

(%)

Flammability limit - upper

13.0 % v/v [Acetone]

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Negligible (25 °C)

Vapor density> 1 (air=1)Relative density $1.02 (25 \,^{\circ}\text{C})$

Solubility(ies)

Solubility (water) Not soluble

Partition coefficient Not applicable

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity2.9 Pa·s (25 °C)

Other information

Molecular weight Not applicable

10. Stability and reactivity

ReactivityNo 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. Water, moisture.

Hazardous decomposition

products

This product reacts with water, moisture or humid air to evolve following compounds:

A natana

Acetone.

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. Formaldehyde.

Material name: KE-3475-T 424 Version #: 01 Issue date: 03-26-2015 SDS US

11. Toxicological information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic

skin reaction.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results
KE-3475-T (CAS Mixture)		
Acute		
Oral		
LD50	Rat	99591.4088 mg/kg estimated
Components	Species	Test Results
Alkenoxysilane (CAS Proprietary)		
Acute		
Oral		
LD50	Rat	> 20 ml/kg
Alkoxysilane (CAS Proprietary)		
Acute		
Dermal		
LD50	Rabbit	4290 mg/kg
Oral		
LD50	Rat	1570 - 3650 mg/kg
		1780 mg/kg
Organosilane (CAS Proprietary)		
Acute		
Oral		
LD50	Rat	3.67 ml/kg
Decomposition	Species	Test Results
Acetone (CAS 67-64-1)		100111000110
Acute		
Inhalation		
LC50	Rat	50.1 mg/l, 8 Hours
Oral		55.1g, 5 1.15a.15
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
		<u> </u>
	Rat	5800 mg/kg
Skin corrosion/irritation	SKIN-RABBIT : 5mg/24Hr SEVERE [Alkoxysilane] Causes severe skin burns and eye damage. [Organo	osilane]
Serious eye damage/eye irritation	EYE-RABBIT : 0.75mg/24Hr SEVERE [Alkoxysilane Causes serious eye damage. [Organosilane] Causes serious eye irritation. [Acetone]]
Respiratory or skin sensitization	1	
Respiratory or skin sensitizatior Respiratory sensitization	n Not available.	
Respiratory or skin sensitization Respiratory sensitization Skin sensitization		
Respiratory sensitization	Not available.	

Material name: KE-3475-T SDS US

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.

Reproductive toxicity Not available.

Specific target organ toxicity - May cause damage to the following organs.

single exposure Narcotic effects. [Acetone]

Specific target organ toxicity -

repeated exposure

Not available.

Aspiration hazard Not available.

Further information This product reacts with water , moisture or humid air to evolve following compounds:

Acetone

12. Ecological information

Ecotoxicity

Components Species Test Results

Alkoxysilane (CAS Proprietary)

Aquatic

Fish LC50 Oryzias latipes > 1000 mg/l, 48 hr

Decomposition Species Test Results

Acetone (CAS 67-64-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 21.6 - 23.9 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

Persistence and degradability Causes easily hydrolysis in water or atmosphere. [Alkoxysilane]

Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructions Follow applicable Federal, State and Local regulations.

14. Transport information

DOT

UN number UN1993

UN proper shipping name Flammable liquids, n.o.s. (Alkenoxysilane)

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 IB2, T7, TP1, TP8, TP28

Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN1993

UN proper shipping name Flammable liquid, n.o.s. (Alkenoxysilane)

Transport hazard class(es)

i riammable liquid, n.o.s. (Alkenoxysilane

Class 3
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 3H

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Material name: KE-3475-T

SDS US

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Alkenoxysilane)

Transport hazard class(es)

Class 3 Subsidiary risk Packing group Ш **Environmental hazards**

Marine pollutant

No. F-E, S-E*

EmS

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. This product is not intended to be transported in bulk.

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

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)

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)

Material name: KE-3475-T SDS US

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

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

International Inventories O-----

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

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

03-26-2015 Issue date

Version # 01

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

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.

Product and Company Identification: Product and Company Identification **Revision Information**

Composition / Information on Ingredients: Additional Components

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data

Ecological Information: Ecotoxicity

Transport Information: Proper Shipping Name/Packing Group

Regulatory Information: Regulatory Information

HazReg Data: Pacific Rim GHS: Classification

Material name: KE-3475-T SDS US

424 Version #: 01 Issue date: 03-26-2015