

## 1. Identification

<b>Product identifier</b>	<b>KE-3421</b>
<b>Other means of identification</b>	
<b>Sales Code</b>	GDUNS0
<b>Recommended use</b>	RTV rubbers RTV rubber for electrical, electronic and general industry (coating)
<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 2A
	Reproductive toxicity (the unborn child, fertility)	Category 2
<b>Environmental hazards</b>	Not classified.	
<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** Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility. 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. 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. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

#### Response

In case of fire: Use water fog, foam, dry chemical powder or carbon dioxide(CO2) to extinguish. 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. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

#### Storage

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

#### Disposal

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

### Hazard(s) not otherwise classified (HNOC)

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: Acetone
<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	%
Alkenoxysilane		15332-99-7	3 - 10
Organosilane		69709-01-9	0.3 - 1
Alkoxysilane(A)		919-30-2	0.3 - 1
Alkoxysilane(B)		1760-24-3	0.3 - 1
Toluene		108-88-3	0.3 - 1

#### Decomposition

Chemical name	Common name and synonyms	CAS number	%
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

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<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. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
<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>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<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.

### 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.
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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.

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**

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

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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. Vapors may form explosive mixtures with air. Provide adequate ventilation.

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. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Use care in handling/storage. Do not breathe mist or vapor. Pregnant or breastfeeding women must not handle this product. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.

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

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. Store away from incompatible materials (see Section 10 of the SDS).  
Keep in original 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)**

Decomposition	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm

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

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

**US. ACGIH Threshold Limit Values**

Components	Type	Value
Toluene (CAS 108-88-3)	TWA	20 ppm

**Decomposition**

Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm

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

Components	Type	Value
Toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm
	TWA	375 mg/m3 100 ppm

**Decomposition**

Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm
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## Biological limit values

### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
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	*
Decomposition	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*

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

## Exposure guidelines

### US - California OELs: Skin designation

Methanol(Impurity) (CAS 67-56-1)

Can be absorbed through the skin.

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

### US - Minnesota Haz Subs: Skin designation applies

Methanol(Impurity) (CAS 67-56-1)

Skin designation applies.

Toluene (CAS 108-88-3)

Skin designation applies.

### US - Tennessee OELs: Skin designation

Methanol(Impurity) (CAS 67-56-1)

Can be absorbed through the skin.

### US ACGIH Threshold Limit Values: Skin designation

Methanol(Impurity) (CAS 67-56-1)

Can be absorbed through the skin.

### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Methanol(Impurity) (CAS 67-56-1)

Can be absorbed through the skin.

### 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 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.

#### 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

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

Liquid.

#### Color

Light yellow. Clear.

### Odor

Acetone odor

### Odor threshold

Not available.

### pH

Not measurable (Refer to water solubility)

### Melting point/freezing point

No data

### Initial boiling point and boiling range

Not applicable.

### Flash point

33.8 °F (1 °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]

<b>Flammability limit - upper (%)</b>	13.0 % v/v [Acetone]
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Negligible ( 25 °C )
<b>Vapor density</b>	> 1 (air=1)
<b>Relative density</b>	0.98 (25°C)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not soluble
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	300 mm <sup>2</sup> /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. Water, moisture.
<b>Hazardous decomposition products</b>	This product reacts with water, moisture or humid air to evolve following compounds: 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 .

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** 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
Alkoxysilane(A) (CAS 919-30-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	4290 mg/kg
<b>Oral</b>		
LD50	Rat	1570 - 3650 mg/kg
		1780 mg/kg

Components	Species	Test Results
Alkoxysilane(B) (CAS 1760-24-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg 16 ml/kg
<b>Oral</b>		
LD50	Rat	2995 mg/kg 2400 mg/kg
Organosilane (CAS 69709-01-9)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Rat	3.67 ml/kg
Toluene (CAS 108-88-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	12124 mg/kg 14.1 ml/kg
<b>Inhalation</b>		
LC50	Mouse	400 ppm, 24 Hours
<b>Oral</b>		
LD50	Rat	5000 mg/kg 2.6 g/kg
Decomposition	Species	Test Results
Acetone (CAS 67-64-1)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Rat	50.1 mg/l, 8 Hours
<b>Oral</b>		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
<b>Skin corrosion/irritation</b>	Causes visible necrosis of the skin tissue (Rabbit/60 Minutes) [Organosilane] SKIN-RABBIT : 5mg/24Hr SEVERE [Alkoxysilane(A)] SKIN-RABBIT : Moderately irritating [Alkoxysilane(B)] Causes skin irritation. [Toluene]	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage. [Organosilane] EYE-RABBIT : 0.75mg/24Hr SEVERE [Alkoxysilane(A)] EYE-RABBIT : 15mg SEVERE [Alkoxysilane(B)] Causes eye irritation. [Toluene] Causes serious eye irritation. [Acetone]	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	May cause an allergic skin reaction. [Alkoxysilane(A) ] Positive (Guinea pig) [Alkoxysilane(B) ]	
<b>Germ cell mutagenicity</b>	Negative(Ames Test) [Alkoxysilane (A)] Negative(Ames test, Chromosome analysis, Micronucleus test) [Alkoxysilane (B)]	
<b>Germ cell mutagenicity: Ames test</b>		
Organosilane	OECD 471 Result: Negative with and without metabolic activation. Species: Micro-organisms	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.	

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

Not regulated.

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

Not listed.

<b>Reproductive toxicity</b>	Developmental toxicity: NOAEL 500mg/kg/day (Rat), Maternal toxicity: NOAEL 500mg/kg/day (Rat) [Alkoxysilane(B)] Suspected of damaging the unborn child. [Toluene]
<b>Specific target organ toxicity - single exposure</b>	May cause damage to the following organs. Narcotic effects. [Toluene] Narcotic effects. [Acetone]
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to the following organs through prolonged or repeated exposure: Central nervous system. [Toluene]
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. [Toluene]
<b>Further information</b>	This product reacts with water , moisture or humid air to evolve following compounds: Acetone

**12. Ecological information**

<b>Ecotoxicity</b>	Toxic to aquatic life. [Alkoxysilane(B)] [Toluene] Harmful to aquatic life with long lasting effects. [Toluene]		
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Alkoxysilane(A) (CAS 919-30-2)			
<b>Aquatic</b>			
Fish	LC50	Oryzias latipes	> 1000 mg/l, 48 hr
Alkoxysilane(B) (CAS 1760-24-3)			
<b>Aquatic</b>			
Algae	EbC50	Green algae (Selenastrum capricornutum)	5.5 mg/l, 72 hr
	ErC50	Green algae (Selenastrum capricornutum)	8.8 mg/l, 72 hr
Crustacea	EC50	Daphnia magna	90 mg/l, 48 hr 81 mg/l, 48 hr
	NOEC	Daphnia magna	> 1 mg/l, 21 day
Fish	LC50	Brachydanio rerio	597 mg/l, 96 hr
Organosilane (CAS 69709-01-9)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Pseudokirchneriella subcapitata	> 133 mg/l, 72 hours
	NOEC	Pseudokirchneriella subcapitata	> 133 mg/l, 72 hours
Crustacea	EC50	Daphnia	> 122 mg/l, 48 hours
Toluene (CAS 108-88-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	5.5 mg/l, 96 hours
<b>Decomposition</b>		<b>Species</b>	<b>Test Results</b>
Acetone (CAS 67-64-1)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 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]		

**Biodegradability****Percent degradation (Aerobic biodegradation-ready)**

Organosilane

36 % OECD 301F, Not readily biodegradable.

Species: Activated sludge

Test Duration: 28 days

**Bioaccumulative potential** No data available.**Mobility in soil** Not available.**Mobility in general** No data available.**Other adverse effects** Not available.

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**13. Disposal considerations**

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

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**14. Transport information**

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**DOT**

**UN number** UN1133  
**UN proper shipping name** Adhesives, containing a flammable liquid  
**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 with restrictions.  
**Cargo aircraft only** Allowed with restrictions.

**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** 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** 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.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Methanol(Impurity) (CAS 67-56-1) Listed.

Toluene (CAS 108-88-3) Listed.

### SARA 304 Emergency release notification

Not regulated.

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

Not regulated.

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

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Toluene	108-88-3	0.3 - 1

**US state regulations** 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

Methanol(Impurity) (CAS 67-56-1) Listed: March 16, 2012

Toluene (CAS 108-88-3) Listed: January 1, 1991

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Methanol(Impurity) (CAS 67-56-1)

Toluene (CAS 108-88-3)

### International Inventories

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)	Yes
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

Country(s) or region	Inventory name	On inventory (yes/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

<b>Issue date</b>	09-02-2015
<b>Revision date</b>	04-17-2019
<b>Version #</b>	03
<b>HMIS® ratings</b>	Health: 2* Flammability: 3 Physical hazard: 0
<b>NFPA ratings</b>	Health: 2 Flammability: 3 Instability: 0
<b>NFPA ratings</b>	



<b>Disclaimer</b>	<p>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.</p> <p>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.</p>
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.