

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: KE-348-T

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: FIPG sealant for car engines.
For industrial purposes only.

1.3 Details of the supplier of the safety data sheet

Company name: Shin-Etsu Silicones Europe B.V.

Street/POB-No.: Bolderweg 32

Postal Code, city: 1332 AV Almere
Netherlands

Telephone: +31 36-5493-170

Telefax: +31 36-5326-459

Dept. responsible for information:

QA department,

Telephone: +31 36-5493-179, Email: sds@shinetsusilicones.eu

Additional information:

Manufacturer:

Shin-Etsu Chemical Co., Ltd.

6-1, 2-Chome, Ohtemachi, Chiyodaku

Tokyo, Japan

Tel: 03-3246-5345 (Tokyo, Japan)

1.4 Emergency telephone number

Telephone: +31 36-5493-170

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements:

P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

Special labelling

EUH208	Contains 3-Aminopropyltriethoxysilane. May produce an allergic reaction.
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2.3 Other hazards

With exposure to moisture, product will release acetone.
Acetone: Highly flammable liquid and vapour. Causes serious eye irritation. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Organopolysiloxane mixture

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 239-362-1 CAS 15332-99-7	Tris(Isopropenyloxy)vinylsilane	< 10 %	Flam. Liq. 3; H226.
REACH 01-2119480479-24-xxxx EC No. 213-048-4 CAS 919-30-2	3-Aminopropyltriethoxysilane	< 1 %	Acute Tox. 4; H302. Skin Corr. 1B; H314. Skin Sens. 1; H317.
EC No. 274-092-8 CAS 69709-01-9	N,N,N',N'-Tetramethyl-N'-[3-(trimethoxysilyl)propyl]guanidin	< 1 %	Skin Corr. 1B; H314. Eye Dam. 1; H318.

Full text of H- and EUH-statements: see section 16.

Additional information: With exposure to moisture, product will release acetone.
The maximum workplace exposure limits are, where necessary, listed in section 8.

SECTION 4: First aid measures**4.1 Description of first aid measures**

General information:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Move victim to fresh air. Seek medical treatment in case of troubles.
Following skin contact:	Wash with generous amount of water and soap. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After swallowing: Rinse mouth with water.
Never give anything by mouth to an unconscious person.
Consult physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Causes skin irritation.
May cause allergic reactions in already sensitized persons.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Foam, extinguishing powder, water spray jet, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

In case of fire may be liberated: silicon dioxide, traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -

Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Avoid contact with skin, eyes, and clothing. Do not breathe vapours. Wear appropriate protective equipment. Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.

Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Do not breathe vapours.

Wear appropriate protective equipment. When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Usual measures for fire prevention. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep away from heat sources, sparks and open flames. Protect from moisture.

Store containers in upright position. Do not drop, drag or bang the container.

Do not re-use the empty container. Do not weld.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
67-64-1	Acetone	Europe: IOELV: TWA	1210 mg/m ³ ; 500 ppm
		Great Britain: WEL-STEL	3620 mg/m ³ ; 1500 ppm
		Great Britain: WEL-TWA	1210 mg/m ³ ; 500 ppm
		Ireland: 8 hours	1210 mg/m ³ ; 500 ppm IOELV

8.2 Exposure controls

Provide adequate ventilation, and local exhaust as needed.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to EN 374.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid contact with skin, eyes, and clothing. Take off contaminated clothing and wash it before reuse.

Do not breathe vapour/aerosol. Wear appropriate protective equipment.

Have eye wash bottle or eye rinse ready at work place.

After work, wash hands and face.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: solid Form: pasty Colour: white, translucent
Odour:	like acetone
Odour threshold:	No data available
pH value:	not applicable
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	Not applicable
Evaporation rate:	<= 1 (butyl acetate =1)
Flammability:	No data available
Explosion limits:	LEL (Lower Explosion Limit): 2.10 Vol-% (acetone) UEL (Upper Explosive Limit): 13.00 Vol-% (acetone)
Vapour pressure:	at 25 °C: negligible
Vapour density:	>= 1 (air =1)
Density:	at 25 °C: 1.05 g/cm ³
Water solubility:	insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

With exposure to moisture, product will release acetone.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames. Protect from moisture.

10.5 Incompatible materials

Water, strong oxidizing agents

10.6 Hazardous decomposition products

Acetone.

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition products: silicon dioxide, traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Toxicological effects: Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.
Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Lack of data.
Specific target organ toxicity (repeated exposure): Lack of data.
Aspiration hazard: Lack of data.

Other information: Product may release acetone.
Information about acetone:
LD50 Rat, oral: 5800 mg/kg; LC50 Rat, inhalative: 50.1 mg/L/8h.
Irritating to eyes.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.

Symptoms

After contact with skin: Redness, pain.

After eye contact: Causes tears, redness, stinging, oedema (swelling), visual disorders

SECTION 12: Ecological information

12.1 Toxicity

Further details: No data available

12.2 Persistence and degradability

Further details: Do not allow to penetrate into soil, waterbodies or drains.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 02 17 = Waste containing silicones.

Recommendation: Incinerate according to applicable local, state and federal regulations.

Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging.

Recommendation: Do not re-use the empty container.

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Marine pollutant:

no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code:

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No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information**Further information**

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

EUH208 = Contains 3-Aminopropyltriethoxysilane. May produce an allergic reaction.

Reason of change:

Changes in section 2: Classification, labelling

Changes in section 3: Composition / information on ingredients

General revision

Date of first version:

5/10/2010

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.