

TSE 382 C

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

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

### 1.1 Product identifier

Product name: TSE 382 C

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

Identified uses: Silicone Elastomer

Uses advised against: Not known.

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials GmbH  
Chempark Leverkusen Gebaeude V7  
DE - 51368 Leverkusen  
Germany

**Contact person** : MomentiveEMEA.productsteward@momentive.com

**Telephone** : General information  
00800.4321.1000 (Customer Service Centre)

### 1.4

**Emergency telephone number** : Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44 (0) 1235239671

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

#### Health Hazards

Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Skin sensitizer	Category 1B	H317: May cause an allergic skin reaction.

### 2.2 Label Elements



**Signal Words:** Warning

**Hazard Statement(s):** H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.

#### Precautionary Statements

**Prevention:** P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272: Contaminated work clothing should not be allowed out of the workplace.

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P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313: If eye irritation persists: Get medical advice/attention.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Unknown toxicity - Health**

Acute toxicity, oral 0 %  
 Acute toxicity, dermal 0 %  
 Acute toxicity, inhalation, vapor 0 %  
 Acute toxicity, inhalation, dust or mist 0 %

**Additional Information:** No data available.

**2.3 Other hazards** No data available.

**SECTION 3: Composition/information on ingredients**

**Chemical nature:** Mixture of polydimethylsiloxanes, fillers and cross-linkers.

**3.2 Mixtures**

**General information:** No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Methyl oxime silane	1 - <5%	Trade secret	Trade secret	Trade secret	No data available.	
butanone oxime vinylsilane	0,1 - <1%	2224-33-1	218-747-8	01-2119970537-27-0000	No data available.	
Aminoethyl aminopropyl trimethoxy silane	0,1 - <1%	1760-24-3	217-164-6	01-2119970215-39-0001	No data available.	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# # This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

Chemical name	Classification	Notes
Methyl oxime silane	STOT RE: 2: H373; Skin Sens.: 1B: H317; Eye Dam.: 2: H319;	No data available.
butanone oxime	Skin Sens.: 1B: H317; Eye Dam.: 1: H318; STOT RE: 2:	No data

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vinylsilane	H373;	available.
Aminoethyl aminopropyl trimethoxy silane	Eye Dam.: 1: H318; Skin Sens.: 1: H317;	

CLP: Regulation No. 1272/2008.

**SECTION 4: First aid measures**

**General:** Get medical attention if symptoms occur.

**4.1 Description of first aid measures**

**Inhalation:** Move to fresh air. Get medical attention if symptoms occur.

**Eye contact:** Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.

**Skin Contact:** After contact with skin, remove product mechanically. Continue to rinse for at least 15 minutes and seek medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Get medical attention immediately.

**4.2 Most important symptoms and effects, both acute and delayed:** None known. None known.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Hazards:** No data available.

**Treatment:** No data available.

**SECTION 5: Firefighting measures**

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use standard firefighting procedures and consider the hazards of other involved materials.

**5.1 Extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**5.2 Special hazards arising from the substance or mixture:**

By heating and fire, irritating vapors/gases may be formed. In case of fire, carbon monoxide and carbon dioxide may be formed.

**5.3 Advice for firefighters**

**Special fire fighting procedures:** Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Full protective clothing should be worn when handling this product.

**SECTION 6: Accidental release measures**

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- 6.1 Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. Use personal protective equipment.
- 6.2 Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.
- 6.3 Methods and material for containment and cleaning up:** Shovel up and place in a container for salvage or disposal. Caution: Contaminated surfaces may be slippery.
- 6.4 Reference to other sections:** Remove sources of ignition. Prevent runoff from entering drains, sewers, or streams. Caution: Contaminated surfaces may be slippery.

**SECTION 7: Handling and storage:**

- 7.1 Precautions for safe handling:** Methyl ethyl ketoxime (MEKO; 2-Butanone-oxime) is formed during processing. Wear appropriate personal protective equipment. Product may charge electrostatically during pouring or filling. Use only in well-ventilated areas. Keep away from food, drink and animal feeding stuffs. Do not smoke, use open fire or other sources of ignition.
- Storage conditions:** Keep away from sources of ignition - No smoking. Keep container tightly closed. Store in original container.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a cool, well-ventilated place.
- Storage Stability:** Stable
- 7.3 Specific end use(s):** No data available.

**SECTION 8: Exposure controls/personal protection**

- 8.1 Control Parameters**
  - Occupational Exposure Limits**

None of the components have assigned exposure limits.
  - Biological Limit Values**

None.
- 8.2 Exposure controls**
  - Appropriate Engineering Controls:** Well-ventilated area. Eye washes and showers for emergency use.
  - Individual protection measures, such as personal protective equipment**
    - General information:** Wear suitable gloves and eye/face protection.
    - Eye/face protection:** Safety glasses with side-shields conforming to EN166
    - Skin protection**

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<b>Hand Protection:</b>	Advice: Nitrile. Material: 730 Camatril Glove thickness: 0,4 mm Advice: This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email: vertrieb@kcl.de).
<b>Other:</b>	Apron and long sleeves are recommended.
<b>Respiratory Protection:</b>	Respiratory protection mask with Filterttype ABEK
<b>Hygiene measures:</b>	Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke.
<b>Environmental exposure controls:</b>	No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

<b>Physical state:</b>	Solid
<b>Form:</b>	Paste
<b>Color:</b>	Colorless
<b>Odor:</b>	Faint
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	106 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	ca. 1,04 g/cm <sup>3</sup>
<b>Relative density:</b>	1,04
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	Insoluble
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	> 20,5 mm <sup>2</sup> /s (40 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

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**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity:</b>	No data available.
<b>10.2 Chemical Stability:</b>	No data available.
<b>10.3 Possibility of hazardous reactions:</b>	No data available.
<b>10.4 Conditions to avoid:</b>	Keep away from sources of ignition - No smoking.
<b>10.5 Incompatible Materials:</b>	Reacts with water/moisture liberating Methylethylketoxime (MEKO) = 2-Butanone-oxime. Reacts with water forming ethanol.
<b>10.6 Hazardous Decomposition Products:</b>	Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**SECTION 11: Toxicological information**

**General information:** Experience has shown, that the above mentioned product can be used without any danger to health, as long as the usual conditions of industrial hygiene are observed.

**Information on likely routes of exposure**

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

**11.1 Information on toxicological effects**

**Acute toxicity**

**Oral**

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
Methyl oxime silane	No data available.
butanone oxime	No data available.
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	LD 50 (Rat): 2.995 mg/kg

**Dermal**

<b>Product:</b>	Not classified for acute toxicity based on available data.
<b>Specified substance(s)</b>	
Methyl oxime silane	No data available.
butanone oxime	No data available.
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	LD 50 (Rabbit): > 2.000 mg/kg

**Inhalation**

<b>Product:</b>	ATEmix340,91 mg/l Dusts, mists and fumes
<b>Specified substance(s)</b>	

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Methyl oxime silane	No data available.
butanone oxime	No data available.
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	No data available.

**Repeated dose toxicity**

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Methyl oxime silane	No data available.
butanone oxime	No data available.
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	NOAEL (Rat, Oral, 28 d): >= 500 mg/kg

**Skin Corrosion/Irritation:**

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Methyl oxime silane	No data available. (No data available.): Corrosive
butanone oxime	No data available. (No data available.): Corrosive
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	OECD Test Guideline 404 (Rabbit): No skin irritation

**Serious Eye Damage/Eye Irritation:**

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Methyl oxime silane	No data available.
butanone oxime	No data available.
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	OECD Test Guideline 405 (Rabbit): Strongly irritating.

**Respiratory or Skin Sensitization:**

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Methyl oxime silane	No data available.
butanone oxime	No data available.
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	, OECD Guideline 429 (LLNA) (Guinea Pig) positive

**Germ Cell Mutagenicity**

**In vitro**

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
Methyl oxime silane	No data available.
butanone oxime	No data available.
vinylsilane	
Aminoethyl aminopropyl trimethoxy silane	No data available.

**In vivo**

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**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**Aspiration Hazard**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**Other effects:** This product will liberate methyl-ethyl-ketoxime (MEKO) on curing, contact with water or moisture in the air.



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The toxicity of pure MEKO is characterized by:

Mild skin irritation, severe eye irritation, and systemic toxicity after inhalation or long term exposure. The acute inhalation 4-hr LC50 was > 4.8 mg/L.

Long-term inhalation studies (>28 days) with 2-butanone-oxime in male rats and mice showed at concentrations of 10 ppm and higher atrophy of the mucous membrane of the nose in rats and mice. This effect is most probably due to the irritating potential of 2-butanone-oxime.

Central nervous system effects (motor function, narcotic), which were reversible, when exposure is terminated, were observed at high concentrations. Acute exposure to 400 ppm in air caused effects on blood chemistry (methemoglobinemia).

MEKO has been shown to elicit skin sensitization in Guinea pigs, but no sensitization has been reported in humans.

After life long inhalation exposure to the maximum concentration of 375 ppm liver carcinomas were observed in male rats and mice. In male rats exposed to concentrations of 75 ppm benign liver tumors were observed. The lowest test concentration of 15 ppm caused no tumors. The relevance of these tumors to humans is unknown.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl  
 trimethoxy silane LC50 (Lepomis macrochirus): > 100 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl  
 trimethoxy silane EC50 (Daphnia magna, 48 h): 87,4 mg/l

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.

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trimethoxy silane

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): 8,8 mg/l  
 trimethoxy silane NOEC (Algae (Pseudokirchneriella subcapitata)): 3,1 mg/l

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**BOD/COD Ratio**

**Product** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**12.3 Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**

Methyl oxime silane No data available.  
 butanone oxime No data available.  
 vinylsilane  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

**12.4 Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Methyl oxime silane No data available.  
 butanone oxime vinylsilane No data available.  
 Aminoethyl aminopropyl No data available.  
 trimethoxy silane

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**12.5 Results of PBT and vPvB assessment:** No data available.

Methyl oxime silane	No data available.
butanone oxime vinylsilane	No data available.
Aminoethyl aminopropyl trimethoxy silane	No data available.

**12.6 Other adverse effects:** No data available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:** The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

**Disposal methods:** Can be incinerated when in compliance with local regulations.

**SECTION 14: Transport information**

**ADR**

Not regulated.

**ADN**

Not regulated.

**RID**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**14.6 Special precautions for user:** This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed. keep away from odour sensitive materials

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:**

Not applicable

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

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**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:** none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:** none

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:** none

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:** none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:** none

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**Inventory Status**

Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	Not in compliance with the inventory.	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	Q (quantity restricted)	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.

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REACH:

If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.

Remarks: None.

**SECTION 16: Other information**

**Revision Information:** Not relevant.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3**

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

**Training information:** No data available.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Eye Dam. 2, H319  
Skin Sens. 1, H317

**Issue Date:** 06.06.2018

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**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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