



SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

TSE382-B

Section 1. Product and company identification

Product name : TSE382-B

Chemical name : Ketoxime Silicone Sealant

Manufacturer/Importer/Distri

butor Information

Momentive Performance Materials - Japan LLC

133 Nishishin-machi, Ohta-shi

Ohta-shi 10 3738505

Contact person : commercial.services@momentive.com

Telephone : General information +1-800-295-2392

Emergency telephone number

Supplier : CHEMTREC

1-800-424-9300

Section 2. Hazards identification

Classification of the substance or

mixture

SKIN SENSITIZATION - Category 1

SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 2

GHS label elements

Hazard pictograms

Signal word

: Warning

Hazard statements: H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated

exposure (cardiovascular system)

Precautionary statements

General : Not applicable.

Prevention : Wear protective gloves.

Do not breathe dust.

Contaminated work clothing should not be allowed out of the

workplace.

Response : Get medical attention if you feel unwell.

IF ON SKIN:

Wash with plenty of soap and water.
Wash contaminated clothing before reuse.

TSE382-B Page: 2/10

If skin irritation or rash occurs:

Get medical attention.

Storage Not applicable.

Disposal P501Dispose of contents and container in accordance with all local,

regional, national and international regulations.

Other hazards which do not result in classification

None known.

Section 3. Composition/information on ingredients

Substance/mixture Mixture Chemical name Not available

Hazardous ingredients	% by weight	CAS
		number
2-Butanone, 2,2',2"-[O,O',O"-(methylsilylidyne)trioxime]	1 - 5	22984-54-9
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	0.1 - 1	1760-24-3

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Immediately flush eyes with plenty of water, occasionally lifting the Eye contact upper and lower eyelids. Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes. Get medical attention

following exposure or if feeling unwell.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable

> for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband.

Skin contact Wash with plenty of soap and water. Remove contaminated clothing

> and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Ingestion Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if

feeling unwell. Never give anything by mouth to an unconscious

Version: 10 00/00/0000 Date of issue/Date of revision: 05/22/2015 Date of previous issue:

TSE382-B Page: 3/10

person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms

may be delayed. The exposed person may need to be kept under

medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first aid personnel: No action shall be taken involving any personal risk or without

suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media : Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).

water jet

Specific hazards arising from the chemical

Hazardous thermal decomposition products

No specific fire or explosion hazard.

Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are

formed due to oxidative degradation.

Special protective actions for firefighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters

For non-emergency personnel

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full

protective clothing.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

TSE382-B Page:4/10

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal

Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not breathe dust. Do not ingest. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

TSE382-B Page: 5/10

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134). Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state

Color : Not available

Odor: Not availableOdor threshold: Not availablepH: Not availableMelting point: Not availableBoiling point: Not availableFlash point: Not determined

Burning time : Not available

TSE382-B Page:6/10

Burning rate: Not availableEvaporation rate: Not availableFlammability (solid, gas): Not available

Lower and upper explosive : Lower: Not available (flammable) limits : Upper: Not available

Vapor pressure: Not availableVapor density: Not availableRelative density: Not availableSolubility: Not availableSolubility in water: Not availablePartition coefficient: n-: Not available

octanol/water

Auto-ignition temperature: Not availableDecomposition temperature: Not availableSADT: Not available

Viscosity : Dynamic: Not available
Kinematic: Not available

Other information

No additional information.

Section 10. Stability and reactivity

Reactivity : Stable under normal conditions.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions

will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

products

Product/ingredient name	Result	Species	Dose	Exposure	
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-					
	LC50 Inhalation	Rat	1.49 - 2.44 mg/l	-	
	LD50 Dermal	Rabbit	2,000 mg/kg	-	

Conclusion/Summary : Not determined

Irritation/Corrosion

Conclusion/Summary

Skin:Not determinedeyes:Not determinedRespiratory:Not determined

Sensitization

Conclusion/Summary

TSE382-B Page:7/10

Skin : Not determined Respiratory : Not determined

Mutagenicity

Conclusion/Summary : Not determined

Carcinogenicity

Conclusion/Summary : Not determined

Reproductive toxicity

Conclusion/Summary : Not determined

Teratogenicity

Conclusion/Summary : Not determined

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

	Product/ingredient name	Category	Route of exposure	Target organs
ĺ	2-Butanone, 2,2',2"-[O,O',O"-	Category 2		cardiovascular system
	(methylsilylidyne)trioxime]			

Aspiration hazard

Not available

Information on the likely routes of : Not available

exposure

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard.

Serious effects may be delayed following exposure.

Skin contact : May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Long term exposure

Potential immediate effects : Not available

TSE382-B Page:8/10

Potential delayed effects : Not available

Potential chronic health effects

Conclusion/Summary : Not determined

General : May cause damage to organs through prolonged or repeated

exposure Once sensitized, a severe allergic reaction may occur

when subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
N-(3-(trimethoxysilyl)propyl)ethylenediamine			
	Acute EC50 87.4 mg/l Fresh water	Aquatic invertebrates.	48 h
	_	Water flea	
	Acute IC50 30.7 mg/l Fresh water	Aquatic plants - Algae	-

Conclusion/Summary : Not available

Persistence/degradability

Conclusion/Summary : Not available

Mobility in soil

Soil/water partition coefficient

(KOC)

Not available

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental

TSE382-B Page: 9/10

protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. See Section 8 for information on appropriate personal protective equipment.

Section 14. Transport information

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.

15. Regulatory information

United States

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None

required.

United States - TSCA 5(a)2 - Final significant new use rules: Not

listed

United States - TSCA 5(a)2 - Proposed significant new use rules:

Not listed

United States - TSCA 5(e) - Substances consent order: Not listed

SARA 311/312

Classification : Immediate (acute) health hazard Delayed (chronic) health hazard

<u>California Prop. 65:</u> : None required.

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).

International regulations

International lists : Taiwan inventory (CSNN): Not determined.

United States inventory (TSCA 8b): All components are listed or exempted.

(Quantity restricted)

Section 16. Other information

Hazardous Material Information System III (U.S.A.):

TSE382-B Page: 10/10

Health	1
Flammability	1
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H

statements

Not applicable.

History

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Key to abbreviations

: Product Safety Stewardship

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

UN = United Nations Not available

References

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives.

Keep out of the reach of children.

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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