



# SAFETY DATA SHEET

### FOR INDUSTRIAL USE ONLY

Silquest A-171\* silane

# Section 1. Product and company identification

**Product name** : Silquest A-171\* silane

Chemical name : Vinyltrimethoxysilane

Material uses : Crosslinking Agent

Manufacturer/Importer/Distri

**butor Information** 

Momentive Performance Materials - Sistersville

10851 Energy Highway FRIENDLY WV 26146

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

: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY:inhalation - Category 4

**Ingredients of unknown toxicity**: Percentage of the mixture consisting of ingredient(s) of unknown

toxicity: 1.9 %

**GHS** label elements

Hazard pictograms

Signal word : Warning

**Hazard statements** : H226 Flammable liquid and vapor.

H332 Harmful if inhaled.

**Precautionary statements** 

**General** : Not applicable.

**Prevention** : Wear protective gloves.

Wear eye or face protection.

Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

Use explosion-proof electrical, ventilating, lighting and all material-

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handling equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use only outdoors or in a well-ventilated area.

Avoid breathing vapor.

Response : IF INHALED:

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

comfortable for breathing.

Call a POISON CENTER or physician if you feel unwell.

IF ON SKIN (or hair):

Take off immediately all contaminated clothing.

Rinse skin with water or shower.

**Storage** : P403Store in a well-ventilated place.

P235Keep cool.

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

regional, national and international regulations.

Other hazards which do not result in classification

Additional methanol may be formed by reaction with moisture.

# Section 3. Composition/information on ingredients

**Substance/mixture** : Substance

Chemical name : Vinyltrimethoxysilane

### **CAS** number/other identifiers

**CAS number** : 2768-02-7 **EC number** : Not available

Hazardous ingredients	% by weight	CAS
		number
Vinyltrimethoxysilane	60 - 100	2768-02-7

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

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the

upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if

irritation occurs.

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

for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 if adverse

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> health effects persist or are severe. If necessary, call a poison center or physician. 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.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Wash out mouth with water. 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. 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 if adverse health effects persist or are severe. Never give anything by mouth to an unconscious 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 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

Protection of first aid personnel No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# **Section 5. Fire-fighting measures**

# Extinguishing media

Skin contact

**Ingestion** 

Suitable extinguishing media Use dry chemical, CO2, water spray (fog) or foam. Unsuitable extinguishing media Do not use water jet.

Specific hazards arising from the chemical

Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products 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. Move containers from fire area if this can be done without risk. 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

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

protective clothing.

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# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. 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".

**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

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous.

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# 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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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** 

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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. 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., When there is a risk of ignition from static electricity, wear anti-static protective clothing., For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

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). Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working

limits of the selected respirator.

# Section 9. Physical and chemical properties

## **Appearance**

Physical state : Liquid Color : Light yellow

Odor : ester-like
Odor threshold : Not available
pH : Not available
Melting point : < -70 °C (94.00- °F)

**Boiling point** : 123 °C (253.40 °F)

Flash point : 28 °C (82.40 °F) (Tag Closed Cup)

Burning time : Not available
Burning rate : Not available

**Evaporation rate** : < 1

(n-Butyl acetate=1)

Flammability (solid, gas) : Not available
Lower and upper explosive : Lower: 1.4 %(V)
(flammable) limits : Upper: 19.9 %(V)

**Vapor pressure** : 11.97 hPa @ 20 °C (68.00 °F)

**Vapor density** : > 1 [Air = 1]

**Relative density** : Not available **Density** : 0.9670 g/cm3

**Solubility** : Not available

**Solubility in water** : 9,400 g/l @ 20 °C (68.00 °F) Reactive

Partition coefficient: n-

octanol/water

Not available

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

Viscosity : Dynamic: Not available
Kinematic: Not available

Other information

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#### 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 : Avoid all possible sources of ignition (spark or flame). Do not

pressurize, cut, weld, braze, solder, drill, grind or expose containers

to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:

oxidizing materials

Reacts with water or moisture to form:

Methanol

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

# **Information on toxicological effects**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure	
Vinyltrimethoxysilane					
	LC50 Inhalation	Rat	2773 ppm OECD	4 h	
			Test Guideline 403	3	
	LD50 Dermal	Rabbit	> 3,460 - 4,000	-	
			mg/kg OECD-		
			Guideline 402		
			(Acute Dermal		
			Toxicity)		
Product Toxicological Data					
	LD50 Oral	Rat	7,340 - 7,460	-	
			mg/kg OECD-		
			Guideline 401		
			(Acute Oral		
			Toxicity)		
	LC50 Inhalation	Rat	16.79 mg/l	4 h	
	LD50 Dermal	Rabbit	3,460 - 4,000	-	
			mg/kg OECD-		
			Guideline 402		
			(Acute Dermal		
			Toxicity)		

Conclusion/Summary : Not determined

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Product Toxicological Data	eyes	Rabbit			-
Remarks:	Non-irritating to the eyes.				

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	Skin	Rabbit			-
Remarks:	Non-irritant to skin.				

**Conclusion/Summary** 

Skin : Based on available data, the classification criteria are not met.
eyes : Based on available data, the classification criteria are not met.

**Respiratory** : Not determined

## **Sensitization**

Product/ingredient name	Route of exposure	Species	Result
Vinyltrimethoxysilane	Sensitisation, skin	Guinea pig	did not elicit a delayed contact hypersensitivity response OECD- Guideline 406 (Skin Sensitisation)
Product Toxicological Data	Skin sensitizer	Guinea pig	did not elicit a delayed contact hypersensitivity response

**Conclusion/Summary** 

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)**

Not available

### **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** : Harmful if inhaled.

Skin contact
Ingestion
No known significant effects or critical hazards.
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: No specific data.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
Potential delayed effects : Not available

### Potential chronic health effects

Conclusion/Summary : Not determined

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : This material was not mutagenic in an Ames bacterial assay. This

material was negative in a CHO gene mutation assay. This material was positive in a mammalian chromosome aberration test. This material was negative in a mouse micronucleus assay. This material was negative in a SCE assay. 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

#### **Other information**

Exposure of primates for about 3 months to organosilane ester vapor at 100 ppm (6 hr/day for 5 days/week) did not cause any adverse effects on the respiratory tract, but did result in mild eye irritation and minor anemia. No such effects were seen at 10 ppm. In another experiment, exposure of rats to 750 ppm and higher vapor concentrations for 6 hr/day for 9 days produced nasal mucosal inflammation, minor anemia, and kidney injury, with mortalities at concentrations around 1500 ppm. For rats, a marginal effects concentration was established at 150 ppm for short-term repeated overexposure, on the basis of body weight changes. In a subsequent subchronic (14 week) study in rats it was found that kidney injury was produced at 400 ppm which was reversible over a 4-week recovery period. Marginal signs of toxicity were seen at 100 ppm, and 10 ppm was a no-effects concentration by subchronic exposure. The material was not mutagenic in an Ames bacterial assay, a forward gene mutation test in CHO cells, and in a test to assess sister chromatid exchanges in CHO cells. An in vitro cytogenetics test in CHO cells showed a concentration-related increase in the incidence of chromosome aberrations, particularly in the presence of a metabolic activation system. However, with a micronucleus test in mice the material did not produce any evidence for clastogenic activity. This in vivo finding must be regarded as having the greater relevance with respect to biological implications.

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# Section 12. Ecological information

### **Ecotoxicity**

Product/ingredient name	Result	Species	Exposure
trimethoxyvinylsilane			
	Acute LC50 > 100 mg/l Static 203	Fish - Brachydanio	96 h
	Fish, Acute Toxicity Test	rerio	
	Acute LC50 191 mg/l	Fish - Oncorhynchus	96 h
		mykiss	
	Acute EC50 > 100 mg/l static test	Aquatic invertebrates.	48 h
	202 Daphnia sp. Acute	Water flea	
	Immobilization Test and		
	Reproduction Test		
	Acute EC50 > 100 mg/l Static 201	Aquatic plants -	72 h
	Alga, Growth Inhibition Test	Desmodesmus	
		subspicatus (green	
		algae)	
Product Ecotoxicological Data	a		
-	Acute EC50 > 100 mg/l Static OECD	Fish - Brachydanio	96 h
	203	rerio	
	Acute EC50 > 100 mg/l Static OECD	Aquatic plants -	72 h
	Test Guideline 201	Desmodesmus	

Conclusion/Summary : Not available

Persistence/degradability

Conclusion/Summary : Not available

**Bioaccumulative potential** 

Product/ingredient name	Species	Exposure	LogPow	BCF	Potential
Product Ecotoxicological Data				-	low

### 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 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

subspicatus (green

algae)

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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**

**DOT SHIPPING NAME:** Flammable liquids, n.o.s.(Vinyltrimethoxysilane)

DOT HAZARD CLASS:3DOT LABEL (S):3UN/NA NUMBER:UN1993PACKING GROUP:III

**IMDG SHIPPING NAME:** Flammable liquids, n.o.s.(Vinyltrimethoxysilane)

CLASS: 3
IMDG-Labels: 3
UN NUMBER: UN1993
PACKING GROUP: III
EmS No.: F-E; S-E

**IATA:** Flammable liquids, n.o.s.(Vinyltrimethoxysilane)

CLASS: 3
ICAO-Labels: 3
UN NUMBER: UN1993
PACKING GROUP: III

**Special precautions for user**: Transport within user's premises: always transport in closed

containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an

accident or spillage.'

# 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** : Fire hazard

Immediate (acute) health hazard

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#### California Prop. 65:

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

### **Canada**

WHMIS (Canada)

: Class B-2: Flammable liquid with a flash point lower than 37.8°C

 $(100^{\circ}F)$ .

Class D-1A: Material causing immediate and serious toxic effects (Very

toxic).

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

#### **International regulations**

**International lists** : **Australia inventory (AICS):** All components are listed or exempted.

**Japan inventory:** All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

**Korea inventory:** All components are listed or exempted. **Canada inventory:** All components are listed or exempted.

New Zealand Inventory (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted.

Taiwan inventory (CSNN): All components are listed or exempted.

# Section 16. Other information

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

Health	2
Flammability	3
Physical hazards	1

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 : Not applicable.

statements

### **History**

Date of printing: 07/11/2016Date of issue/Date of revision: 08/06/2015Date of previous issue: 05/20/2015

Version : 1.2

Prepared by

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

References

Not available

#### 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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