



# SAFETY DATA SHEET

# FOR INDUSTRIAL USE ONLY

#### Y-15866

# Section 1. Product and company identification

Product name : Y-15866

Chemical name : Organoalkoxysilane

Manufacturer/Importer/Distr :

ibutor 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

Not classified.

**GHS label elements** 

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

General : Not applicable.

**Prevention** : Not applicable.

**Response** : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Other hazards which do not result

in classification

None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Substance

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Chemical name : Organoalkoxysilane

Hazardous ingredients	% by weight	CAS number
Organofunctional Silane	70 - 100	Trade
		secret.

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.

Get medical attention if irritation occurs.

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

for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**: 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. Get medical attention if symptoms

occur.

#### 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.

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

hemical
Hazardous thermal
decomposition products

In a fire or if heated, a pressure increase will occur and the container may burst.

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

silicon oxidesDecomposition products may include the following

materials: carbon dioxide carbon monoxide

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

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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

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 For non-emergency personnel

> suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective

equipment.

If specialised clothing is required to deal with the spillage, take note For emergency responders 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. Note: see section 1 of SDS for emergency

contact information and section 13 of SDS for waste disposal.

Stop leak if without risk. Move containers from spill area. 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). 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).

Advice on general occupational

hygiene

Large spill

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

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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

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**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.

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

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limits of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state : Liquid Color : colorless.

Odor : Mild.

Odor threshold : Not available pH : Not available

Melting point : < -71 °C (< -96 °F) (OECD Guideline 102)

Boiling point : 216.7 °C (422.1 °F) (OECD test guideine 103)

Flash point : 104.4 °C (219.9 °F) (ASTM D 93)

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: Not available (flammable) limits : Upper: Not available

Vapor pressure : 4.6 Pa @ 25 °C (77 °F) (OECD Test guideline 104)

**Vapor density** : Greater than 1 [Air = 1]

**Relative density** : 1.0714 @ 20 °C (68 °F)

**Density** : 1.074 g/cm3

Solubility : Not available Solubility in water : Not available

Partition coefficient: n- : 0.5 - 4.52 @ 25 °C (77 °F) pH 7.3 (Tested according to Directive

octanol/water 92/69/EEC.)

Auto-ignition temperature :  $> 250 \, ^{\circ}\text{C} \, (> 482 \, ^{\circ}\text{F})$ 

**Decomposition temperature** : Not available **SADT** : 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 : High TemperaturesNo specific data.

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Incompatible materials : Halogens (chlorine) in the presence of sunlight or ultraviolet light.

peroxidesNo specific data.

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
Product Toxicological Data				
	LD50 Oral	Rat - female	> 2,000 mg/kg OECD-Guideline 423 (Acute Oral Toxicity - Acute Toxic Class Method)	-
	LD50 Dermal	Rat - female	> 2,000 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	Skin 404	Rabbit			-
	Acute				
	Dermal				
	Irritation/Cor				
	rosion				
Remarks:	Non-irritating to the skin.				
	eyes 405	Rabbit			-
	Acute Eye				
	Irritation/Cor				
	rosion				
Remarks:	Non-irritating to the eyes.				

Conclusion/Summary

Skin : Not determined eyes : Not determined Respiratory : Not determined

### Sensitization

Product/ingredient name	Route of exposure	Species	Result
Product Toxicological Data	Skin sensitizer	Mouse	Negative OECD
			Guideline 429 (LLNA)

Conclusion/Summary

Skin: Not determinedRespiratory: Not determined

**Mutagenicity** 

Conclusion/Summary : Not determined

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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
Organofunctional Silane	Category 2		bladder

### **Aspiration hazard**

Not available

Information on the likely routes of

exposure

Not available

### Potential acute health effects

Eye contact:No known significant effects or critical hazards.Inhalation:No known significant effects or critical hazards.Skin contact:No known significant effects or critical hazards.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: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:No known significant effects or critical hazards.

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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**

Conclusion/Summary : Not available

### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Organoalkoxysilane		88.9 % - 28 d	17.9 mg/l	
Remarks:	Readily biodegradable			

Conclusion/Summary : Not available

Bioaccumulative potential

Product/ingredient name	Species	Exposur e	LogPow	BCF	Potential
Product Ecotoxicological Data			0.5 - 4.52	-	high

### **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 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

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be disposed of in a safe way. 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 : Not applicable.

<u>California Prop. 65:</u> : 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 D-2B: Material causing other toxic effects (Toxic).

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

**International regulations** 

International lists : Australia inventory (AICS): At least one component is not listed.

**Japan inventory:** At least one component is not listed.

China inventory (IECSC): Please contact your supplier for information on the

inventory status of this material.

**Korea inventory:** At least one component is not listed. **Canada inventory:** At least one component is not listed.

**Philippines inventory (PICCS):** At least one component is not listed.

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

Taiwan inventory (CSNN): At least one component is not listed.

# Section 16. Other information

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

Health 1

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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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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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