SAFETY DATA SHEET



COSMO PU-205.280 (COSMOFEN DUO - Hardener)

Section 1. Identification			
GHS product identifier	: COSMO PU-205.280 (COSMOFEN DUO - Hardener)		
Product code	: Not available.		
Other means of identification	: Not available.		
Product type	: Liquid.		
Relevant identified uses of	the substance or mixture and uses advised against		
Product use	: Adhesive.		
Area of application	: Professional applications.		
Supplier's details	: Weiss USA LLC		
	P.O. Box 509		
	USA, Monroe, NC 28111-0509		
	For information, contact the Product Safety Department		
	Telephone no.: (001) 704 282 4496		
	E-Mail: Stephen@weiss-usa.com		
e-mail address of person responsible for this SDS	: Stephen@weiss-usa.com		
Emergency telephone number (with hours of operation)	: +1 872 5888271 (WIC)		

Section 2. Hazards identification

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Classification of the substance or mixture: H315SKIN IRRITATION - Category 2H319EYE IRRITATION - Category 2AH334RESPIRATORY SENSITIZATION - Category 1H317SKIN SENSITIZATION - Category 1H335SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 2		H319EYE IRRITATION - Category 2AH334RESPIRATORY SENSITIZATION - Category 1H317SKIN SENSITIZATION - Category 1H335SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3H373SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)	1

GHS label elements Hazard pictograms



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Section 2. Hazards identification

Signal word	: Danger
Hazard statements	 H319 - Causes serious eye irritation. H315 - Causes skin irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H373 - May cause damage to organs through prolonged or repeated exposure. (lungs)
Precautionary statements	
Prevention	 P280 - Wear protective gloves: 1 - 4 hours (breakthrough time): Nitrile gloves. (>=0.35 mm). Protective hand cream Wear eye or face protection. P284 - Wear respiratory protection: Recommended: A respirator is not needed under normal and intended conditions of product use. Use appropriate respiratory protection if there is a risk of exceeding any exposure limits. Filter A2 P2. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling. P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
Response	 P314 - Get medical attention if you feel unwell. P304 + P341 (OSHA) + P312 - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P302 + P352 + P363 - IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	: P405 - Store locked up.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	:	Mixt
Other means of		Not

ture

Other means of identification

: Not available.

Ingredient name	Other names	%	CAS number
Isocyanic acid, polymethylenepolyphenylene ester	-	≥25 - ≤50	9016-87-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

Section 4. First aid measures

Description of necess	sary 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.
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 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. In the event of any complaints or symptoms, avoid further exposure.
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 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.

Most important symptoms/effects, acute and delayed

Potential acute health e	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/s	<u>ymptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

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

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Section 4. First a	aid measures
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-aiders
 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. 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	: In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides Hydrogen cyanide (HCN). Toxic gases
Special protective actions for fire-fighters	 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.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: Heating may cause an explosion.

Section 6. Accidental release measures

Personal precautions, protect	tiv	e 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. 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 specialized 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 materials for containment and cleaning up

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Section 6. Accidental release measures

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. Dispose of via a licensed waste disposal contractor.
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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease 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 ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Do not reuse container.
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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 15 to 25°C (59 to 77°F). 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) and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits	
Ingredient name	Exposure limits
Isocyanic acid, polymethylenepolyphenylene ester	None.

Appropriate engineering controls	: Use only with adequate ventilation. 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.
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.
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Section 8. Exposure controls/personal protection

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
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. 1 - 4 hours (breakthrough time): Nitrile gloves. (>=0.35 mm). Protective hand cream.
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. Recommended: Long-sleeved protective clothing. Safety shoes.
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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: A respirator is not needed under normal and intended conditions of product use. Use appropriate respiratory protection if there is a risk of exceeding any exposure limits. Filter A2 P2

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid. [Paste-like.]
Color	: According to specification
Odor	: Slight
Odor threshold	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not applicable.
Evaporation rate	: Not applicable.
Flammability (solid, gas)	: Not applicable.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
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Section 9. Physical and chemical properties

Relative density	:	Not available.
Density	:	~ 1.6 g/cm³ [20°C (68°F)]
Solubility	1	Insoluble in the following materials: cold water and hot water.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	1	Not available.
SADT	1	Not available.
Viscosity	1	Not available.
Flow time (ISO 2431)	1	Not available.
Physical/chemical properties comments	:	Non-volatile.

Section 10. Stability and reactivity

Peactivity	. No apositio toot data related to reactivity available for this product or its ingradiante
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Protect from moisture. Keep away from heat. Hazardous polymerization may occur under certain conditions of storage or use. May polymerize on exposure or in contact to the following: heat [>~260°C (>~500°F)]
Conditions to avoid	: Protect from moisture. Keep away from heat.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: alcohols, amines, alkalis, acids, water
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
Isocyanic acid, polymethylenepolyphenylene ester	LC50 Inhalation Dusts and mists	Rat	490 mg/m³	4 hours
	LD50 Dermal LD50 Oral		>9400 mg/kg 49 g/kg	-

Irritation/Corrosion

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sue : No previous validation

Section 11. Toxicological information

Product/ingredient name	Result		Specie	S	Score	Exposur	e	Observation
lsocyanic acid, polymethylenepolyphenylene ester	Eyes - Mild irrita	ant	Rabbit		-	100 mg		-
	Skin - Irritant		Rabbit		-	-		-
Sensitization								
Not available.								
<u>Autagenicity</u>								
Conclusion/Summary	: Not available.							
Carcinogenicity								
Conclusion/Summary	: Not available.							
Classification								
Product/ingredient name	OSHA	IAR	c	NTP				
Isocyanic acid, polymethylenepolyphenylene ester		3		-				
Reproductive toxicity								
Conclusion/Summary	: Not available.							
the second second sector to the second se								
<u>Feratogenicity</u>								
Conclusion/Summary	: Not available.							
		<u>re)</u>						
Conclusion/Summary		<u>re)</u>	Categ	ory		te of osure	Tar	get organs
Conclusion/Summary Specific target organ toxicity	<u>/ (single exposu</u>		Catego Catego		expe		Res	get organs piratory tract ation
Conclusion/Summary Specific target organ toxicity Name	<u>y (single exposu</u> polyphenylene es	ster			expe	osure	Res	piratory tract
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene	<u>y (single exposu</u> polyphenylene es	ster		ory 3	Not a	osure	Res	piratory tract
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene Specific target organ toxicity	<u>r (single exposu</u> polyphenylene es <u>r (repeated expo</u>	ster sure)	Catego	ory 3	Rou expo	applicable.	Res	piratory tract ation get organs
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene Specific target organ toxicity Name	<u>r (single exposu</u> polyphenylene es <u>r (repeated expo</u>	ster sure)	Catego Catego	ory 3	Rou expo	applicable.	Res irrita	piratory tract ation get organs
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene Specific target organ toxicity Name Isocyanic acid, polymethylene	<u>r (single exposu</u> polyphenylene es <u>r (repeated expo</u>	ster sure) ster	Catego Catego Catego	ory 3	Rou Not a Not o	applicable.	Res irrita	spiratory tract ation get organs
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene Specific target organ toxicity Name Isocyanic acid, polymethylene Aspiration hazard Not available. formation on the likely outes of exposure Specific target organ toxicity	<u>v (single exposu</u> polyphenylene es <u>v (repeated expo</u> polyphenylene es : Routes of enti	ster sure) ster	Catego Catego Catego ed: Oral, D	ory 3	Rou Not a Not o	applicable.	Res irrita	piratory tract ation get organs
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene Specific target organ toxicity Name Isocyanic acid, polymethylene Aspiration hazard Not available. formation on the likely outes of exposure Detential acute health effects Eye contact	<u>v (single exposu</u> polyphenylene es <u>v (repeated expo</u> polyphenylene es : Routes of entr : Causes seriou	ster ster ster ry anticipat	Catego Catego Catego ed: Oral, D ation.	ory 3 ory 2	Inhalation.	applicable.	Res irrita	piratory tract ation get organs js
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene Specific target organ toxicity Name Isocyanic acid, polymethylene Aspiration hazard Not available. formation on the likely outes of exposure Specific target organ toxicity	 <u>v (single exposu</u> polyphenylene es <u>v (repeated expo</u> polyphenylene es : Routes of entri : Causes seriou : May cause readificulties if in 	ster sure) ster ry anticipat us eye irrita spiratory ir haled.	Catego Catego Catego ed: Oral, D ation.	ory 3 ory 2 ory 2	Inhalation.	applicable. te of osure determined	Res irrita	piratory tract ation get organs js
Conclusion/Summary Specific target organ toxicity Name Isocyanic acid, polymethylene Specific target organ toxicity Name Isocyanic acid, polymethylene Aspiration hazard Not available. formation on the likely outes of exposure Detential acute health effects Eye contact	<u> y (single exposu</u> polyphenylene es <u> y (repeated expo</u> polyphenylene es : Routes of entr : Causes seriou : May cause res	ster ster ster ry anticipat us eye irrita spiratory ir haled. rritation. M	Catego Catego Catego ed: Oral, D ation. ritation. Ma lay cause a	ory 3 ory ory 2 ermal, ay caus	Inhalation.	applicable. te of osure determined	Res irrita	piratory tract ation get organs js

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
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.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
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

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
COSMO PU-205.280	31263.9	4728.3	N/A	N/A	N/A
Isocyanic acid, polymethylenepolyphenylene ester	49000	N/A	N/A	N/A	1.5

Section 11. Toxicological information

Other information

: Adverse symptoms may include the following: headache drowsiness/fatigue dizziness/vertigo unconsciousness

Section 12. Ecological information

Toxicity

Conclusion/Summary : Not available.

Persistence and degradability

Product/ingredient name	Test Result		Dose			Inoculum	
Isocyanic acid, polymethylenepolyphenylene ester	302C Inherent Biodegradability: Modified MITI Test (II)	0 % - 28 da	iys	-		-	
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability	
Isocyanic acid, polymethylenepolyphenylene ester	-			-		Not readily	

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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 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.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

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.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

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U.S. Federal regulations	 TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica TSCA 8(a) CDR Exempt/Partial exemption: Not determined TSCA 8(c) calls for record of SAR: Isocyanic acid, polymethylenepolyphenylene ester United States inventory (TSCA 8b): Not determined.
Clean Air Act Section 112	: Not listed
(b) Hazardous Air Pollutants (HAPs)	
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ <u>SARA 311/312</u>	: Not applicable.

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Section 15. Regulatory information

Classification	: SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	RESPIRATORY SENSITIZATION - Category 1
	SKIN SENSITIZATION - Category 1
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 2

Composition/information on ingredients

Name	%	Classification
Isocyanic acid, polymethylenepolyphenylene ester	≥25 - ≤50	ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (lungs) - Category 2

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	≥25 - ≤50
Supplier notification	Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	≥25 - ≤50

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	 The following components are listed: METHYLENE DIPHENYL DIISOCYANATE (POLYMERIC); ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER; TITANIUM DIOXIDE; TITANIUM OXIDE (TiO2)
Pennsylvania	: The following components are listed: TITANIUM OXIDE

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide and Carbon black, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide Carbon black	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

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Section 15. Regulatory information

Not listed.

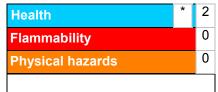
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

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



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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Classification			Justification				
Skin Irrit. 2, H315		Cal	culation method				
Eye Irrit. 2A, H319		Cal	culation method				
Resp. Sens. 1, H334		Cal	culation method				
Skin Sens. 1, H317		Cal	culation method				
STOT SE 3, H335		Cal	culation method				
STOT RE 2, H373 (lungs)		Cal	culation method				
<u>History</u>		ŀ					
Date of issue/Date of revision	: 01/13/2020						
Date of previous issue	: No previous	validation					
Date of issue/Date of revision	: 01/13/2020	Date of previous issu	e : No previou	is validation	Version	:1	13/14

Procedure used to derive the classification

United States

Section 16. Other information

Version	: 1
Prepared by	: Chemical Check GmbH
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available UN = United Nations
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.