SAFETY DATA SHEET



Date of issue/Date of revision 4 April 2016 Version 7

Section 1. Identification		
Product name	: MOISTURE CURE ALUMINUM PR	
Product code	: UC65371	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: Industrial applications.	
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.	
Uses advised against	: Not applicable.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)	
Technical Phone Number	: 888-977-4762	

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 AMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS), hearing organs, kidneys and liver) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 52.2%

GHS label elements

Product name MOISTURE CURE ALUMINUM PR

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapor. Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs, kidneys, liver)
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wear respiratory 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-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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. 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. If experiencing respiratory symptoms: Call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Moisture-sensitive material. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in

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Product name MOISTURE CURE ALUMINUM PR

Section 2. Hazards identification

any process in which this product is used. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise

: Prolonged or repeated contact may dry skin and cause irritation.

classified

Section 3. Composition/information on ingredients

Substance/mixture	Sul	osta	nce	m	ixtı	ıre
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: Mixture

Product name

: MOISTURE CURE ALUMINUM PR

Ingredient name	%	CAS number
Socyanic acid, polymethylenepolyphenylene ester, polymer with 1,	≥20 - ≤50	67815-87-6
2-ethanediamine, 2-methyloxirane and 1,2-propanediol		
xylene	≥10 - ≤13	1330-20-7
Solvent naphtha (petroleum), heavy arom.	≥5.0 - ≤10	64742-94-5
4,4'-methylenediphenyl diisocyanate	≥5.0 - ≤7.0	101-68-8
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤4.4	64742-95-6
Stoddard solvent	≥1.0 - ≤5.0	8052-41-3
Isocyanic acid, polymethylenepolyphenylene ester	≥1.0 - ≤3.5	9016-87-9
ethylbenzene	≥0.10 - ≤2.3	100-41-4
Benzene, polypropene derivs., sulfonated, calcium salts	≥1.0 - ≤5.0	75975-85-8
naphthalene	≥0.10 - ≤2.9	91-20-3
methylenediphenyl diisocyanate	<1.0	26447-40-5

SUB codes represent substances without registered CAS Numbers.

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 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

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed Potential acute health effects

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Section 4. First aid measures

Eye contact	: Causes serious eye irritation.
Inhalation	 Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</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 dryness cracking
Ingestion	: No specific data.
Indication of immediate me	dical 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-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	: Use dry chemical, CO ₂ , 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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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.

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 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). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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.

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Section 6. Accidental release measures

Special provisions

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). Place in a suitable container. The contaminated area should be cleaned immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). A non-flammable alternative is sodium carbonate (5 parts) and water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in an unsealed container. Once this stage is reached, close container and dispose of according to local regulations (see section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. 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 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) and food and drink. Store locked up. 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. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO ₂ will be formed, which, in closed containers, could result in pressurization.

= Short term Exposure limit values

= Threshold Limit Value

= Time Weighted Average

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= Total dust

STEL

TD

TLV

TWA

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Section 8. Exposure controls/personal protection

Control parameters

F

IPEL

OSHA

R

= Fume

= Respirable

= Internal Permissible Exposure Limit

= Occupational Safety and Health Administration.

Occupational exposure limits

Ingredient name	Exposure limits
Socyanic acid, polymethylenepolyphenylene ester, polymer with 1, 2-ethanediamine, 2-methyloxirane and 1,2-propanediol	None.
xylene	ACGIH TLV (United States, 3/2015).
,	STEL: 651 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Solvent naphtha (petroleum), heavy arom.	None.
4,4'-methylenediphenyl diisocyanate	ACGIH TLV (United States, 3/2015).
	TWA: 0.005 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	CEIL: 0.2 mg/m ³
	CEIL: 0.02 ppm
	ACGIH TLV (United States, 1/2007).
Oskusstasshtler (notaslava) linkt sasastis	TWA: 0.05 mg/m ³ 8 hours.
Solvent naphtha (petroleum), light aromatic	None.
Stoddard solvent	ACGIH TLV (United States, 3/2015).
	TWA: 525 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 2900 mg/m ³ 8 hours.
	TWA: 500 ppm 8 hours.
Isocyanic acid, polymethylenepolyphenylene ester	None.
ethylbenzene	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Benzene, polypropene derivs., sulfonated, calcium salts	None.
naphthalene	ACGIH TLV (United States, 3/2015).
	Absorbed through skin.
	TWA: 52 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 50 mg/m ³ 8 hours.
	TWA: 10 ppm 8 hours.
methylenediphenyl diisocyanate	None.
	I
A = Acceptable Maximum Peak	S = Potential skin absorption
CGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization
C = Ceiling Limit	SS = Skin sensitization
	STEL - Short term Expedium limit values

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Section 8. Exposure controls/personal protection

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of other engineering controls to keep worker exposure to airborne contaminants below an 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	 ventilation equipment. 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 measur	<u>S</u>
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 Skin protection	: Chemical splash goggles.
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.
Gloves	: butyl rubber
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 antistatic 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	: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. 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.
Restrictions on use	 Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.
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Product name MOISTURE CURE ALUMINUM PR

Section 9. Physical and chemical properties

Appearance

Physical state	:	Liquid.
Color	:	Not available.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	1	Not available.
Melting point	1	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	1	Closed cup: 35.56°C (96°F)
Material supports combustion.	1	Yes.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 1%
Evaporation rate	1	0.33 (butyl acetate = 1)
Vapor pressure	:	0.45 kPa (3.4 mm Hg) [room temperature]
Vapor density	:	Not available.
Relative density	:	1.11
Density(Ibs / gal)	:	9.26
Solubility	:	Insoluble in the following materials: cold water.
Partition coefficient: n- octanol/water	:	Not available.
Viscosity	:	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	:	46% (v/v), 36.09% (w/w)
% Solid. (w/w)	:	63.91

Section 10. Stability and reactivity

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	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: In a fire, hazardous decomposition products may be produced.
	Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.

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Section 10. Stability and reactivity

Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LC50 Inhalation Gas.	Rat	6670 ppm	4 hours
-	LC50 Inhalation Vapor	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Solvent naphtha (petroleum), heavy arom.	LD50 Dermal	Rabbit	>1.693 g/kg	-
-	LD50 Oral	Rat	3.2 g/kg	-
4,4'-methylenediphenyl diisocyanate	LC50 Inhalation Dusts and mists	Rat - Female	380 mg/m ³	4 hours
	LD50 Oral	Rat	9200 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
0	LD50 Oral	Rat	8400 mg/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
Isocyanic acid,	LC50 Inhalation Dusts and mists	Rat	490 mg/m ³	4 hours
polymethylenepolyphenylene ester				
	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	4000 ppm	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
·	LD50 Oral	Rat	490 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitization	
Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	

Conclusion/Summary

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Section 11. Toxicological information

Conclusion/Summary : There are no data available on the mixture itself.

Carcinogenicity

: There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
xylene	-	3	-
4,4'-methylenediphenyl	-	3	-
diisocyanate			
Isocyanic acid,	-	3	-
polymethylenepolyphenylene			
ester			
ethylbenzene	-	2B	-
naphthalene	-	2B	Reasonably anticipated to be a human carcinogen.

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

Reproductive toxicity

Conclusion/Summary

: There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category
xylene	Category 3
Solvent naphtha (petroleum), heavy arom.	Category 3
4,4'-methylenediphenyl diisocyanate	Category 3
Solvent naphtha (petroleum), light aromatic	Category 3
Isocyanic acid, polymethylenepolyphenylene ester	Category 3
methylenediphenyl diisocyanate	Category 3

Specific target organ toxicity (repeated exposure)

Name	Category
xylene	Category 2
4,4'-methylenediphenyl diisocyanate	Category 2
Stoddard solvent	Category 1
Isocyanic acid, polymethylenepolyphenylene ester	Category 2
ethylbenzene	Category 2
naphthalene	Category 2
methylenediphenyl diisocyanate	Category 2

Target organs

: Contains material which causes damage to the following organs: brain, central nervous system (CNS), eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, gastrointestinal tract, upper respiratory tract, skin, ears, testes.

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Section 11. Toxicological information

Aspiration hazard

Expense ASPIRATION HAZARD - Category 1 Solvent naphtha (petroleum), light aromatic ASPIRATION HAZARD - Category 1 Solvent naphtha (petroleum), light aromatic ASPIRATION HAZARD - Category 1 Solvent aphtha (petroleum), light aromatic ASPIRATION HAZARD - Category 1 Solvent aphtha (petroleum), light aromatic ASPIRATION HAZARD - Category 1 Solvent aphtha (petroleum), light aromatic ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 Information on the likely routes of exposure Petroleum), light aromatic Petroleum) Causes serious eye irritation. Inhalation : Causes serious eye irritation. Inhalation : No known significant effects or critical hazards. Ovar-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: repaired or irritation watering redness Inhalation : Adverse symptoms may include the following: repaired or irritation watering : redness Insection : Skin contact : No specific data Delayed and Immediate effects and also chronic effects from short and long term exposure : Conclusion/Summary Skin contact : There are no data available on the mixture liself. Skin contact to isoc	Name		Result
Potential acute health effects Eye contact : Causes serious eye irritation. Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms 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: respiratory tract irritation fredness dryness cracking Ingestion : Adverse symptoms may include the following: irritation fredness dryness cracking Ingestion : No specific data. Delayed and immediate effects and also chronic effects from short and long term exposure Conclusion/Summary : There are no data available on the mixture itself. Skin contact to isocyanate monomer may icause acute irritation and/or sensitization of the respiratory system, leading to an astimatic condition, wheezing and tightness of the chest. Repeated exposure may lead to allergic lung reaction. Based on the properties of the socyanate concentrations in excess of the stated occupational exposure init may result in adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizzin	Solvent naphtha (petroleum), heavy arom. Solvent naphtha (petroleum), light aromatic Stoddard solvent		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Eye contact : Causes serious eye irritation. Inhalation : Harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin contact : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. Over-oxposure signs/symptoms : 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 coughing wheezing and breathing difficulties asthma Skin contact : Adverse symptoms may include the following: irritation redness dryness cracking Ingestion : N aspecific data. Delayed and immediate effects and also chronic effects from short and long term exposure Conclusion/Summary : There are no data available on the mixture itself. Skin contact to isocyanate monomer may lead to allergic lung reaction. Based on the propenties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Repeated exposure may lead to permanent respiratory disability. Exposure to component solvent vapor concentrations in excess of the sand dayerse health effects such as mucous membr	Information on the likely ro	outes of exposure	
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United States Page: 12/17	Conclusion/Summary	may lead to allergic lung reaction. components and considering toxic cause acute irritation and/or sensi asthmatic condition, wheezing and to permanent respiratory disability concentrations in excess of the sta health effects such as mucous me effects on the kidneys, liver and ca headache, dizziness, fatigue, mus loss of consciousness. Solvents r through the skin. There is some e vapors in combination with consta expected from exposure to noise a irritation and reversible damage. I This takes into account, where kne effects of components from short-	Based on the properties of the isocyanate cological data on similar mixtures, this mixture may tization of the respiratory system, leading to an d tightness of the chest. Repeated exposure may lead . Exposure to component solvent vapor ated occupational exposure limit may result in adverse embrane and respiratory system irritation and adverse entral nervous system. Symptoms and signs include cular weakness, drowsiness and, in extreme cases, may cause some of the above effects by absorption evidence that repeated exposure to organic solvent nt loud noise can cause greater hearing loss than alone. If splashed in the eyes, the liquid may cause lngestion may cause nausea, diarrhea and vomiting. own, delayed and immediate effects and also chronic term and long-term exposure by oral, inhalation and
			United States Page: 12/17

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Section 11. Toxicological information

Short term exposure		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects		There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	1	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health effe	cts	
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	1	No known significant effects or critical hazards.
Developmental effects	1	No known significant effects or critical hazards.
Fertility effects	1	No known significant effects or critical hazards.
Numerical measures of toxic	ity	
Acute toxicity estimates		

Route	ATE value
Oral	5215.8 mg/kg
Dermal	2142.3 mg/kg
Inhalation (gases)	9845.7 ppm
Inhalation (vapors)	20.1 mg/l
Inhalation (dusts and mists)	1.325 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish - Lepomis macrochirus - Young of the year	96 hours

Persistence and degradability

Product/ingredient name Aquatic half-life		Photolysis	Biodegradability	
xylene ethylbenzene	-	-	Readily Readily	

Bioaccumulative potential

	United States Page
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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
Stoddard solvent	3.16 to 7.06	-	high
ethylbenzene	3.15	79.43	low
naphthalene	3.3	85.11	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information							
	DOT	IMDG	IATA				
UN number	1263	1263	1263				
UN proper shipping name	PAINT	PAINT	PAINT				
Transport hazard class (es)	3	3	3				
Packing group	III	Ш	111				
Environmental hazards	No.	Yes.	No.				
Marine pollutant substances	Not applicable.	(naphthalene, Solvent naphtha (petroleum), heavy aromatic)	Not applicable.				
Product RQ (lbs)	755.55	Not applicable.	Not applicable.				
RQ substances	(xylene, naphthalene)	Not applicable.	Not applicable.				

1 1 Transport information

Product name MOISTURE CURE ALUMINUM PR

14. Transport information

Additional information

DOT	 Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
On a sial ways	entione for your

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.

Section 15. Regulatory information

2

United States

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

U.S. Federal regulations

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

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

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic health hazard)
Socyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, 2-methyloxirane and 1,2-propanediol	No.	No.	No.	Yes.	No.	
xylene	Yes.	No.	No.	Yes.	Yes.	ł
Solvent naphtha (petroleum), heavy arom.	Yes.	No.	No.	Yes.	No.	ł
4,4'-methylenediphenyl diisocyanate	No.	No.	No.	Yes.	Yes.	ł
Solvent naphtha (petroleum), light aromatic	Yes.	No.	No.	Yes.	No.	ł
Stoddard solvent	Yes.	No.	No.	Yes.	Yes.	ł
Isocyanic acid, polymethylene ester	No.	No.	No.	Yes.	Yes.	ł
ethylbenzene	Yes.	No.	No.	Yes.	Yes.	ł
Benzene, polypropene derivs., sulfonated, calcium salts	No.	No.	No.	Yes.	No.	Ŧ
naphthalene	Yes.	No.	Yes.	Yes.	Yes.	ł
				Unite	d States	Page: 15/1

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Section 15. Regulatory information

	methylenediphenyl diisocyana	te	No.	No.	No.	Yes.	Yes.	ł
5	SARA 313							
		<u>Chemic</u>	al name			<u>CAS num</u>	ber	Concentration
	Supplier notification	Aluminiu	um powde	er (stabilized)		7429-90	-5	10 - 30
		xylene				1330-20	-7	10 - 30
		4,4'-met	hylenedip	henyl diisocya	nate	101-68-8	3	5 - 10
		Isocyan	ic acid, po	lymethylenepo	olyphenylene e	ster 9016-87	-9	1 - 5
		ethylber	izene			100-41-4	1	1 - 5
		naphtha	lene			91-20-3		0.5 - 1.5

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.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16. Other information

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

Health : 4 * Flammability : 3 Physical hazards : 1

(*) - Chronic effects

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.

National Fire Protection Association (U.S.A.)						
Health : 4 Flamma	bility : 3 Instability : 1					
Date of previous issue	: 11/27/2015					
Organization that prepared the MSDS	: EHS					
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 = Internediate Bulk Container IMDG = 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) UN = United Nations 					

Indicates information that has changed from previously issued version.

Disclaimer

Product name MOISTURE CURE ALUMINUM PR

Section 16. Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.