# **SAFETY DATA SHEET**

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Section 1. Identification				
Product name	: 4007 HARDENER			
Product code	: 4007			
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 <u>Emergency telephone</u> <u>number</u>	<ul> <li>PPG Industries, Inc. One PPG Place, Pittsburgh, PA 15272</li> <li>(412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)</li> </ul>			
Technical Phone Number				

## 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	<ul> <li>AMMABLE LIQUIDS - Category 3         ACUTE TOXICITY (inhalation) - Category 4         SKIN IRRITATION - Category 2         EYE IRRITATION - Category 2A         SKIN SENSITIZATION - Category 1         CARCINOGENICITY - Category 2         TOXIC TO REPRODUCTION - Category 2         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2         Fercentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 55.9%</li></ul>
GHS label elements	

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#### Section 2. Hazards identification Hazard pictograms Signal word : Warning **Hazard statements** Fammable liquid and vapor. . Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. (hearing organs) Precautionary statements Prevention Øbtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Response : F exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 advice or attention. Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. : Dispose of contents and container in accordance with all local, regional, national and Disposal international regulations. **Supplemental label** : Repeated exposure to high vapor concentrations may cause irritation of the respiratory elements 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. 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

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## Section 3. Composition/information on ingredients

Substance/mixture Product name : Mixture : 4007 HARDENER

Ingredient name	%	CAS number
S-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)	≥50 - ≤75	53880-05-0 (EC 931-312-3)
xylene	≥20 - ≤37	1330-20-7
2-methoxy-1-methylethyl acetate	≥10 - <20	108-65-6
ethylbenzene	≥5.0 - ≤9.4	100-41-4
toluene	<1.0	108-88-3

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	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
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 sympton	oms/effects, acute and delayed
Potential acute health	<u>n effects</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Farmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following:

ye contact : Adverse symptoms may include the following: pain or irritation watering redness

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#### Section 4. First aid measures Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations Ingestion Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations Indication of immediate medical attention and special treatment needed, if necessary Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. **Specific treatments** : No specific treatment. **Protection of first-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 <sub>2</sub> , water spray (fog) or foam.	
Unsuitable extinguishing media	: Do not use water jet.	
Specific hazards arising from the chemical	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen 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.	
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## Section 5. Fire-fighting measures

Special protective<br/>equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing<br/>apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protec	tive 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).		
Methods and materials for co	entainment 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.		

## Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Fut on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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. 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.
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## Section 7. Handling and storage

Special precautions	: If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
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	: Do not store below the following temperature: 5°C (41°F). 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.

## Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	IPEL (-).
(isocyanurate type)	
	TWA: 0.5 mg/m³
	STEL: 1 mg/m <sup>3</sup>
xylene	ACGIH TLV (United States, 1/2022). [xylene]
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	[Xylenes]
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
2-methoxy-1-methylethyl acetate	IPEL (-, 10/2017). Absorbed through skin.
	TWA: 30 ppm
	STEL: 90 ppm
ethylbenzene	ACGIH TLV (United States, 1/2022).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
toluene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 1/2022).
	Ototoxicant.
	TWA: 20 ppm 8 hours.
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## Section 8. Exposure controls/personal protection

	Key to abbreviations		
A= Acceptable Maximum PeakS= Potential skin absorptionACGIH= American Conference of Governmental Industrial Hygienists.SR= Respiratory sensitizationC= Ceiling LimitSS= Skin sensitizationF= FumeSTEL= Short term Exposure limit valuesIPELInternal Permissible Exposure LimitTD= Total dustOSHA= Occupational Safety and Health Administration.TLV= Threshold Limit ValueR= RespirableTUX= Time Weighted AverageZ= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous SubstancesTWA= Time Weighted Average			
Recommended monitoring procedures	: 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	<ul> <li>Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.</li> <li>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.</li> </ul>		
Environmental exposure controls			
Individual protection measur	es de la constante de la const		
<ul> <li>Hygiene measures</li> <li>Wash hands, forearms and face thoroughly after handling chemical products eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated contaminated work clothing should not be allowed out of the workplace. Wa contaminated clothing before reusing. Ensure that eyewash stations and safe showers are close to the workstation location.</li> </ul>			
Eye/face 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.		
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 anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.		
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		

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## Section 8. Exposure controls/personal protection

Respiratory protection	: 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.
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## Section 9. Physical and chemical properties

Appearance				
Physical state	1	Liquid.		
Color	1	Clear.		
Odor	1	Not available.		
Odor threshold	1	Not available.		
рН	1	Not applicable.		
Melting point	1	Not available.		
Boiling point	1	>37.78°C (>100°F)		
Flash point	1	Closed cup: 27.22°C (81°F		
Auto-ignition temperature	1	Not available.		
Decomposition temperature	1	Not available.		
Flammability	1	Not available.		
Lower and upper explosive (flammable) limits	:	Not available.		
Evaporation rate	1	Not available.		
Vapor pressure	1	Not available.		
Vapor density	1	Not available.		
Relative density	1	1.03		
Density(lbs / gal)	1	8.6		
		Media	Result	
Solubility(ies)	÷	old water	Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.		
Viscosity	1	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		
Volatility	1	51% (v/v), 44% (w/w)		
% Solid. (w/w)	:	: 56		
Section 10. Stabili	ty	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** : Under normal conditions of storage and use, hazardous reactions will not occur. reactions **United States** Page: 8/16

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## Section 10. Stability and reactivity

Conditions to avoid	: ₩hen exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.	•
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.	
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides	

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity **Product/ingredient name** Result Species Dose Exposure 3-Isocyanatomethyl-LC50 Inhalation Dusts and mists 4 hours Rat >5010 mg/m<sup>3</sup> 3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type) LD50 Oral Rat >14 g/kg LD50 Dermal Rabbit xylene 1.7 g/kg LD50 Oral 4.3 g/kg Rat 2-methoxy-1-methylethyl LC50 Inhalation Vapor Rat 30 mg/l 4 hours acetate LD50 Dermal Rabbit >5 g/kg LD50 Oral Rat 6190 mg/kg 4 hours ethylbenzene LC50 Inhalation Vapor Rat 17.8 mg/l 17.8 g/kg LD50 Dermal Rabbit LD50 Oral Rat 3.5 g/kg 49 g/m<sup>3</sup> 4 hours toluene LC50 Inhalation Vapor Rat LD50 Dermal Rabbit 8.39 g/kg LD50 Oral Rat 5580 mg/kg

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

# Irritation/CorrosionProduct/ingredient nameResultSpeciesScoreExposureObservationImage: Skin - Moderate irritantRabbit-24 hours 500<br/>mg-

# Conclusion/Summary<br/>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

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Section 11. Toxico	ological	inform	ation		
Product/ingredient name	Route of exposure		pecies	Result	
Isocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)	skin	Gu	iinea pig	Sensitizing	
<u>Conclusion/Summary</u> Skin	: There ar	e no data av	ailable on the mixture	itself.	
Respiratory <u>Mutagenicity</u>	: There ar	e no data av	vailable on the mixture	itself.	
Conclusion/Summary Carcinogenicity	: There ar	e no data av	vailable on the mixture	itself.	
Conclusion/Summary <u>Classification</u>	: There ar	e no data av	vailable on the mixture	itself.	
Product/ingredient name	OSHA	IARC	NTP		
xylene ethylbenzene	-	3 2B	-		
toluene Carcinogen Classification IARC: 1, 2A, 2B, 3	, 4 e a human car	3 cinogen; Rease	- conably anticipated to be a	human carcinogen	
toluene Carcinogen Classification IARC: 1, 2A, 2B, 3 NTP: Known to b OSHA: + Not listed/not registree Reproductive toxicity Conclusion/Summary Ceratogenicity Conclusion/Summary	, 4 e a human car ulated: - : There are : There are	cinogen; Reaso e no data ava e no data ava	- conably anticipated to be a ailable on the mixture if ailable on the mixture if	tself.	
toluene Carcinogen Classification IARC: 1, 2A, 2B, 3 NTP: Known to b OSHA: + Not listed/not regi Reproductive toxicity Conclusion/Summary <u>Feratogenicity</u>	, 4 e a human car ulated: - : There are : There are	cinogen; Reaso e no data ava e no data ava	ailable on the mixture i	tself. tself. Route of	Target organs
toluene Carcinogen Classification IARC: 1, 2A, 2B, 3 NTP: Known to b OSHA: + Not listed/not reg Reproductive toxicity Conclusion/Summary Ceratogenicity Conclusion/Summary Specific target organ toxicity Name	, 4 e a human car ulated: - : There are : There are <u>y (single exp</u> nethylcyclohe	cinogen; Reaso e no data ava e no data ava <u>posure)</u>	ailable on the mixture if ailable on the mixture if Category ate, Category 3	tself. tself.	Target organs Respiratory tract irritation
toluene Carcinogen Classification IARC: 1, 2A, 2B, 3 NTP: Known to b OSHA: + Not listed/not reg Reproductive toxicity Conclusion/Summary Ceratogenicity Conclusion/Summary Specific target organ toxicity Name Securit conclusion/Summary Specific target organ toxicity Name	, 4 e a human car ulated: - : There are : There are y (single exp nethylcyclohe	cinogen; Reaso e no data ava e no data ava <u>posure)</u>	ailable on the mixture if ailable on the mixture if <b>Category</b> ate, Category 3 Category 3	tself. tself. Route of	Respiratory tract irritation Respiratory tract irritation
toluene         Carcinogen Classification         IARC: 1, 2A, 2B, 3         NTP: Known to b         OSHA: +         Not listed/not region         Reproductive toxicity         Conclusion/Summary         Geratogenicity         Conclusion/Summary         Specific target organ toxicity         Name         S-Isocyanatomethyl-3,5,5-trim         oligomers (isocyanurate type)         xylene         2-methoxy-1-methylethyl aceta	<ul> <li>,4</li> <li>e a human care</li> <li>ulated: -</li> <li>: There are</li> <li>: There are</li> <li>y (single explored)</li> </ul>	cinogen; Reaso e no data ava e no data ava <u>posure)</u> exyl isocyana	ailable on the mixture if ailable on the mixture if Category ate, Category 3	tself. tself. Route of	Respiratory tract irritation Respiratory tract
toluene         Carcinogen Classification         IARC: 1, 2A, 2B, 3         NTP: Known to b         OSHA: +         Not listed/not regime         Conclusion/Summary         Conclusion/Summary         Geratogenicity         Conclusion/Summary         Specific target organ toxicity         Name         Specific target organ toxicity         Conclusion/Summary         Specific target organ toxicity         Name         Specific target organ toxicity         Conclusion/Summary         Specific target organ toxicity	<ul> <li>,4</li> <li>e a human care</li> <li>ulated: -</li> <li>: There are</li> <li>: There are</li> <li>y (single explored)</li> </ul>	cinogen; Reaso e no data ava e no data ava <u>posure)</u> exyl isocyana	ailable on the mixture if ailable on the mixture if <b>Category</b> ate, Category 3 Category 3 Category 3 Category 3	tself. tself. Route of exposure - - - - -	Respiratory tract irritation Respiratory tract irritation Narcotic effects Narcotic effects
toluene Carcinogen Classification IARC: 1, 2A, 2B, 3 NTP: Known to b OSHA: + Not listed/not reg Reproductive toxicity Conclusion/Summary Feratogenicity Conclusion/Summary Specific target organ toxicity Name Securit target organ toxicity Name Securit target organ toxicity Name Securit target organ toxicity Name Securit target organ toxicity Name	<ul> <li>,4</li> <li>e a human care</li> <li>ulated: -</li> <li>: There are</li> <li>: There are</li> <li>y (single explored)</li> </ul>	cinogen; Reaso e no data ava e no data ava <u>posure)</u> exyl isocyana	ailable on the mixture if ailable on the mixture if <b>Category</b> ate, Category 3 Category 3 Category 3	tself. tself. Route of	Respiratory tract irritation Respiratory tract irritation Narcotic effects

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## Section 11. Toxicological information

Target organs

: Contains material which causes damage to the following organs: brain. Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

#### Potential acute health effects

Fotential acute fieattil en	
Eye contact	: Causes serious eye irritation.
Inhalation	: 🗗 🖬 Armful if inhaled. May cause respiratory irritation.
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/syr	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths
Skin contact	skeletal malformations Adverse symptoms may include the following: irritation redness dryness cracking
	reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
<u>Delayed and immediate ef</u>	fects and also chronic effects from short and long term exposure
Conclusion/Summary	: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause

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## Section 11. Toxicological information

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	irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	
Potential immediate effects	There are no data available on the mixture itself.
Potential delayed effects	There are no data available on the mixture itself.
<u>Long term exposure</u>	
Potential immediate effects	There are no data available on the mixture itself.
Potential delayed effects	There are no data available on the mixture itself.
Potential chronic health eff	<u>ts</u>
General	May cause 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.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Numerical measures of toxic	<u> </u>

#### Acute toxicity estimates

Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
13012.1 4300 6190 3500	2808.9 1700 N/A 17800	N/A N/A N/A N/A	36.8 11 30 17.8	4.7 1.5 N/A 1.5 N/A
	kg) 13012.1 4300 6190	kg) (mg/kg) 13012.1 2808.9 4300 1700 6190 N/A 3500 17800	kg)         (mg/kg)         (gases) (ppm)           13012.1         2808.9         N/A           4300         1700         N/A           6190         N/A         N/A           3500         17800         N/A	kg)         (mg/kg)         (gases) (ppm)         (vapors) (mg/l)           13012.1         2808.9         N/A         36.8           4300         1700         N/A         11           6190         N/A         N/A         30           3500         17800         N/A         17.8

## Section 12. Ecological information

т	OX	C	itv	

Product/ingredient name	Result	Species	Exposure
P-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -

#### Persistence and degradability

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Product/ingredient name	Test	Result		Dose		Inoculum	
P-methoxy-1-methylethyl acetate ethylbenzene	-		idily - 28 days idily - 10 days	-		-	
Product/ingredient name	Aquatic half-	life	Photolysis		Biodeg	radability	
ylene 2-methoxy-1-methylethyl acetate ethylbenzene toluene	- - - -		- - -		Readily Readily Readily Readily		

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Vene 2-methoxy-1-methylethyl acetate	3.12 1.2	7.4 to 18.5 -	low low
ethylbenzene toluene	3.6 2.73	79.43 8.32	low 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

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## 14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	111	111	111
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	374.41	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

#### **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 : None identified.

IATA : None identified.

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 applicable. to IMO instruments

## Section 15. Regulatory information

#### United States

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

SARA 302/304

SARA 304 RQ : Not applicable.

#### Composition/information on ingredients

No products were found.

#### SARA 311/312

Classification	<ul> <li>FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory</li> </ul>	tract
	United States Pa	age: 14/16

#### Product name 4007 HARDENER

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## Section 15. Regulatory information

irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 HNOC - Defatting irritant

#### Composition/information on ingredients

Name	%	Classification
S-lsocyanatomethyl- 3,5,5-trimethylcyclohexyl isocyanate, oligomers (isocyanurate type)	≥50 - ≤75	SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
xylene	≥20 - ≤37	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1
2-methoxy-1-methylethyl acetate	≥10 - <20	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethylbenzene	≥5.0 - ≤9.4	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
toluene	<1.0	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant

#### **SARA 313**

	Chemical name	<u>CAS number</u>	Concentration
Supplier notification	: 📈lene	1330-20-7	10 - 30
	ethylbenzene	100-41-4	3 - 7

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**: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

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## Section 16. Other information

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

Health : 2 \* 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 and the associated label are not required on MSDSs 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.)				
Health : 2 Flammability : 3 Instability : 1				
Date of previous issue	: 6/1/2021			
Organization that prepared the SDS	: 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 = 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 SGG = Segregation Group UN = United Nations			

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

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.

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