# **SAFETY DATA SHEET**



#### The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 8 March 2024 Version 2.02

Section 1. Identification	
Product name	: Raven 410 HCR - PART B
Product code	: 00467681
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, Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier	<ul> <li>PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121</li> </ul>
Emergency telephone	<ul> <li>PPG Industries, Inc.</li> <li>One PPG Place</li> <li>Pittsburgh, PA 15272</li> <li>: (412) 434-4515 (U.S.)</li> <li>(514) 645-1320 (Canada)</li> </ul>
<u>number</u>	SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)
Technical Phone Number	: 888-977-4762

# Section 2. Hazard identification

Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 2 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1 TOXIC TO REPRODUCTION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
GHS label elements	

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### Section 2. Hazard identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Fatal if inhaled. May cause respiratory irritation. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	: Obtain 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. In case of inadequate ventilation wear respiratory protection. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. 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. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	<ul> <li>Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. Emits toxic fumes when heated.</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 51.5% (oral), 54% (dermal), 66.7% (inhalation)</li> </ul>

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Product name	: Raven 410 HCR - PART B
Other means of identification	: Not available.

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

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### Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
crystalline silica, respirable powder (<10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica- Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	30 - 60*	14808-60-7
2,2'-iminodiethylamine	diethylenetriamine; 2,2'-iminodi (ethylamine); 1,2-Ethanediamine, N1- (2-aminoethyl)-; DETA; 1,2-Ethanediamine, N-(2-aminoethyl)-; N- (2-Aminoethyl)-1,2-ethanediamine; 2,2'- Diaminodiethylamine; bis(2-Aminoethyl) amine; 1,4,7-Tri-(aza)-heptane; di (2-aminoethyl)amine; 1,5-DIAMINO- 3-AZAPENTANE	10 - 30*	111-40-0
bisphenol A	4,4'-isopropylidenediphenol; 4,4'- isopropylidenedi-phenol; Phenol, 4,4'- (1-methylethylidene)bis-; 2,2-Bis (4-hydroxyphenyl)propane; 4,4'- (1-Methylethylidene)bis[phenol; diphenylolpropane; BPA; Phenol, 4,4'- isopropylidenedi-; 4,4'-(propane-2,2-diyl) diphenol; 4,4'-isopropylidenediphenol; BPA; 4,4'-(1-Methylethylidene)bisphenol	7 - 13*	80-05-7
benzyl alcohol	Benzenemethanol; .alpha Hydroxytoluene; Phenylcarbinol; Phenylmethanol; E 1519; α- hydroxytoluene; Phenylmethyl alcohol; toluenol, alpha-; (hydroxymethyl)benzene; BENZENECARBINOL; alpha- Hydroxytoluene	5 - 10*	100-51-6
surfactant		0.5 - 1.5*	Not available.
2-piperazin-1-ylethylamine	1-Piperazineethanamine; 1-(2-Aminoethyl) piperazine; N-(Aminoethyl)piperazine; 2- (1-Piperazinyl) ethylamine; Piperazine, 1- (2-aminoethyl)-; 1-(2-AMINOETHYL)- PIPERAZINE; N- AMINOETHYLPIPERAZINE; 1- (2-AMINOETHYL)PIPERAZIN; 2- (Piperazin-1-yl)ethylamine; 1-Aminoethylpiperazine; PIPERAZINE, N- AMINOETHYL-	0.1 - 1*	140-31-8

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

SUB codes represent substances without registered CAS Numbers.

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.

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### Section 3. Composition/information on ingredients

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>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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 effe	ects
Eye contact	: Causes serious eye damage.
Inhalation	: Fatal if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
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: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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

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### Section 4. First-aid measures

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.

# Section 5. Fire-fighting measures

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Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
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 oxides 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.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# 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. Do not breathe 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	L	
Protective measures	:	Put 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. 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.
Special precautions	:	Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. 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 above the following temperature: 50°C (122°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.

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### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational expo	<u>osure limits</u>	<u>s</u>
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Ingredient name	Exposure limits
rystalline silica, respirable powder (<10 microns)	CA British Columbia Provincial (Canada, 6/2022). [Silica, Crystalline - alpha quartz and Cristobalite Respirable] TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable CA Ontario Provincial (Canada, 6/2019). [Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable CA Quebec Provincial (Canada, 6/2022). [Silica Crystalline -Quartz] TWAEV: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 6/2018). OEL: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: respirable fraction
2,2'-iminodiethylamine	<ul> <li>CA Alberta Provincial (Canada, 6/2018).</li> <li>Absorbed through skin.</li> <li>OEL: 4.2 mg/m<sup>3</sup> 8 hours.</li> <li>OEL: 1 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 6/2022). Absorbed through skin.</li> <li>TWA: 1 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>Absorbed through skin.</li> <li>TWA: 1 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>Absorbed through skin.</li> <li>TWA: 1 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 6/2022).</li> <li>Absorbed through skin.</li> <li>TWAEV: 4.2 mg/m<sup>3</sup> 8 hours.</li> <li>TWAEV: 1 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.</li> <li>STEL: 2 ppm 15 minutes.</li> <li>TWA: 1 ppm 8 hours.</li> </ul>
bisphenol A	IPEL (-). STEL: 5 mg/m³
benzyl alcohol	IPEL (-). TWA: 5 ppm STEL: 10 ppm
surfactant	None.
2-piperazin-1-ylethylamine	None.

#### Consult local authorities for acceptable exposure limits.

# procedures

**Recommended monitoring** : 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.

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### Section 8. Exposure controls/personal protection

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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>ures</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	: Chemical splash goggles and face shield.
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	: nitrile neoprene
Body protection	<ul> <li>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.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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.

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Various
Odor	: Ammoniacal.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 100°C (212°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

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### Section 9. Physical and chemical properties

Flammability	: Not available.	
Lower and upper explosive (flammable) limits	: Not available.	
Evaporation rate	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 1.51	
Density(lbs / gal)	: 12.6	
Solubility(ies)	Media	Result
Solubility(les)	cold water	Soluble
Partition coefficient: n- octanol/water	: Not applicable.	
Viscosity	: Kinematic (40°C (	104°F)): >21 mm²/s (>21 cSt)
Volatility	: 14% (v/v), 9.34%	(w/w)
% Solid. (w/w)	: 90.66	

# 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	: When 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 metal oxide/oxides

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-iminodiethylamine	LC50 Inhalation Dusts and mists	Rat	0.07 to 0.3 mg/l	4 hours
	LD50 Dermal	Rabbit	1090 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	-
bisphenol A	LD50 Dermal	Rabbit	3600 mg/kg	-
•	LD50 Oral	Rat	3.25 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
2	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
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# Section 11. Toxicological information

2-piperazin-1-ylethylamine		Inhalation	Dusts and	miete	Rat	>5 mg/l	4 hours	
		Dermal	Dusis anu		Rabbit	866 mg/kg	-	
	LD50				Rat	2140 mg/kg	-	
Conclusion/Summary	• The	data availal	hle on t	he mixture				
Irritation/Corrosion	. 110		uala avallai					
Conclusion/Summary								
Skin			data availal					
Eyes			data availal data availal					
Respiratory	. The	ie ale no	uala avallai			ilsen.		
<u>Sensitization</u>	1							
Product/ingredient name	Route		Species	Species		Result		
	expos	ure						
2-piperazin-1-ylethylamine	skin		Guinea p	big		Sensitizing		
Skin	: The	re are no	data availal	ble on t	he mixture	itself.		
Respiratory	: The	re are no	data availal	ble on t	he mixture	itself.		
Mutagenicity								
Conclusion/Summary	: The	re are no	data availal	ble on t	he mixture	itself		
<u>Carcinogenicity</u>	• • • • • •							
Conclusion/Summary	• The	re are no	data availal	hle on t	he mixture	itself		
Classification	. 116		uala avallai					
Product/ingredient name		OSHA	IARC	NTP				
rystalline silica, respirable p (<10 microns)	rystalline silica, respirable powder + <10 microns)			Known to be a human carcinogen.				
Carcinogen Classification	code:							
IARC: 1, 2A, 2B, 3, NTP: Known to be OSHA: + Not listed/not regu	a human	carcinoger	n; Reasonably	/ anticipa	ated to be a h	uman carcinogen		
Reproductive toxicity								
Conclusion/Summary	: The	re are no	data availal	ble on t	he mixture	itself.		
Teratogenicity								
Conclusion/Summary	: The	re are no	data availal	ble on t	he mixture	itself.		
Specific target organ toxici								
Name	<u>, ,</u>			Cate	gory	Route of	Target organs	
				-		exposure		
2,2'-iminodiethylamine				Cate	gory 3	-	Respiratory tract	
bisphenol A				Cate	gory 3	-	irritation Respiratory tract irritation	
Specific target organ toxici	ty (repe	ated exp	osure)			I		
Name				Cate	gory	Route of exposure	Target organs	
crystalline silica, respirable p 2-piperazin-1-ylethylamine	owder (·	<10 micro	ns)		gory 1 gory 1	inhalation inhalation	- respiratory tract	
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### Section 11. Toxicological information

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<u>Target organs</u>	: Contains material which causes damage to the following organs: blood, liver, heart, spleen, brain, bone marrow. Contains material which may cause damage to the following organs: kidneys, lungs, gastrointestinal tract, upper respiratory tract, immune system, skin, central nervous system (CNS), eye, lens or cornea.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Fatal if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. Harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.

#### **Over-exposure signs/symptoms**

Eye contact	: Adverse symptoms may include the following: pain watering redness
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: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate eff	ects and also chronic effects from short and long term exposure
Conclusion/Summary	<ul> <li>There are no data available on the mixture itself. This product or</li> </ul>

**Conclusion/Summary** : There are no data available on the mixture itself. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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 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

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# Section 11. Toxicological information

		Alternational Alternation Theorem is a surger and device a Alternational surgery and the surgery is a shown in
		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 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	1	There are no data available on the mixture itself.
Long term exposure		
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	ect	<u>s</u>
General	:	Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	May damage fertility or the unborn child.

#### 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/l)
Raven 410 HCR - PART B	1478.3	1563.4	N/A	N/A	0.071
2,2'-iminodiethylamine	1080	1090	N/A	N/A	0.05
bisphenol A	3250	3600	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
2-piperazin-1-ylethylamine	2140	866	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
2,2'-iminodiethylamine	Acute LC50 430 mg/l	Fish	96 hours
bisphenol A	Acute LC50 0.885 mg/l Fresh water	Crustaceans	48 hours
	Acute LC50 8.11 mg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Neonate	
	Acute LC50 4.6 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 0.000174 mg/l Fresh water	Fish	5 months
2-piperazin-1-ylethylamine	Acute EC50 58 mg/l	Daphnia	48 hours

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### Section 12. Ecological information

Persistence and degradability					
Product/ingredient name	Test	Result		Dose	Inoculum
2,2'-iminodiethylamine 2-piperazin-1-ylethylamine	- OECD 301F	87 % - Readily - 21 days 0 % - Not readily - 28 days -		-	-
Product/ingredient name	Aquatic half-life	)	Photolys	sis	Biodegradability
2,2'-iminodiethylamine bisphenol A benzyl alcohol 2-piperazin-1-ylethylamine	- - - -		- - -		Readily Readily Readily Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
2,2'-iminodiethylamine	-5.58	4.47	Low
bisphenol A	3.4	43.65	Low
benzyl alcohol	0.87	-	Low
2-piperazin-1-ylethylamine	-1.48	-	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 nonrecyclable 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.

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

### Section 14. Transport information

Product name Raven 410 HCR - PART B

### Section 14. Transport information

	TDG	IMDG	ΙΑΤΑ
UN number	UN2927	UN2927	UN2927
UN proper shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (methanol, 2,2'- iminodiethylamine)	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (methanol, 2,2'- iminodiethylamine)	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (methanol, 2,2'- iminodiethylamine)
Transport hazard class (es)	6.1 (8)	6.1 (8)	6.1 (8)
Packing group	II	II	I
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	(bisphenol A)	(bisphenol A)	Not applicable.

Additional inf	formation
TDG	: The marine pollutant mark is not required when transported by road or rail.
IMDG	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. The segregation group has been manually assigned based upon product analysis.
IATA	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special preca	<b>utions for user : Transport within user's premises:</b> 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 t to IMO instru	bulk according : Not applicable. ments
Proof of classification statement: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.26-2.36 (Class 6), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).	
Section 1	15. Regulatory information

#### occiton to. Regulatory into

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National Inventory List
Canada inventory ( DSL )
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: All components are listed or exempted.

### Section 16. Other information

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Hazardous Material Information System (U.S.A.)
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Health : 3 \* Flammability : 1 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.

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Product name Raven 410 HCR - PART B

### Section 16. Other information

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 : 3 Flammabili	
Date of issue/Date of revision	8 March 2024
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 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.