# **SAFETY DATA SHEET**



#### Conforms to Official Mexican Standard NOM-018-STPS-2015

Date of revision 12 March 2022

Version 2

Date of issue 12 March 2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	: HI-TEMP 500 BLUE RAL 5023
Product code	: 00438051
Other means of identification	: Not applicable.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	Not applicable.
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272
Emergency telephone number	<ul> <li>(412) 434-4515 (U.S.)</li> <li>(514) 645-1320 (Canada)</li> <li>SETIQ Interior de la República: 800-00-214-00 (México)</li> <li>SETIQ Ciudad de México: (55) 5559-1588 (México)</li> </ul>
Technical Phone Number	: 888-977-4762

# **SECTION 2: Hazards identification**

<b>Classification of the</b>	: FLAMMABLE LIQUIDS - Category 3
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity:
	37.3% (oral), 47.7% (dermal), 47.7% (inhalation)
GHS label elements	
Hazard pictograms	



Product name HI-TEMP 500 BLUE RAL 5023

# **SECTION 2: Hazards identification**

	-	
Signal word	4	Danger
Hazard statements	:	<ul> <li>F226 - Flammable liquid and vapor.</li> <li>H313 - May be harmful in contact with skin.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H350 - May cause cancer.</li> <li>H361 - Suspected of damaging fertility or the unborn child.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs)</li> </ul>
Precautionary statements		
Prevention	:	<ul> <li>201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P260 - Do not breathe vapor.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
Response	:	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</li> <li>P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.</li> <li>Wash with plenty of water.</li> <li>P332 + P313 - If skin irritation occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul>
Storage	:	₱405 - Store locked up. ₱403 + ₱233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
result in classification		DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER. Sanding and grinding dusts may be harmful if inhaled. Prolonged or repeated contact may dry skin and cause irritation. 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. 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. Emits toxic fumes when heated.
See toxicological information	า (ร	Section 11)

#### See toxicological information (Section 11)

# **SECTION 3: Composition/information on ingredients**

Substance/mixture	
Product name	
Other means of	

identification

: Mixture : HI-TEMP 500 BLUE RAL 5023

: Not applicable.

Ingredient name	%	CAS number
dimethyl carbonate	≥20 - ≤44	616-38-6
Cobalt aluminate blue spinel	≥10 - ≤20	1345-16-0
xylene	≥5.0 - ≤10	1330-20-7
Talc , not containing asbestiform fibres	≥5.0 - ≤10	14807-96-6
titanium dioxide	≥1.0 - ≤5.0	13463-67-7
Mica-group minerals	≥1.0 - ≤5.0	12001-26-2
copper chromite black spinel	≥1.0 - ≤5.0	68186-91-4
ethylbenzene	≥0.10 - ≤2.8	100-41-4
butan-1-ol	≤1.6	71-36-3
crystalline silica, respirable powder (<10 microns)	<1.0	14808-60-7
toluene	<1.0	108-88-3

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**

#### 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	: 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	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.
Over expective signs	leventone

#### Over-exposure signs/symptoms

See toxicological information (Section 11)

Indication of immediate me	dica	attention and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large
Specific treatments	:	quantities have been ingested or inhaled. No specific treatment.

Product name HI-TEMP 500 BLUE RAL 5023

### **SECTION 4: First aid measures**

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: Firefighting 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. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides Formaldehyde.
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, protec	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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	onta	ainment and cleaning up
Small spill		Stop leak if without risk Move containers from spill area. Use spark-proof tools

### **SECTION 6: Accidental release measures**

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# **SECTION 7: Handling and storage**

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). 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.
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. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. 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	:	Store between the following temperatures: 0 to 35°C (32 to 95°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**

С

IPEL

= Ceiling Limit

#### **Occupational exposure limits**

Ingredient name	Exposure limits
dímethyl carbonate	None.
Cobalt aluminate blue spinel	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 0.02 mg/m <sup>3</sup> , (as Co) 8 hours.
xylene	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
Talc , not containing asbestiform fibres	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> STEL: 2 mg/m <sup>3</sup> 15 minutes. Form: Respirable
titanium dioxide	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.
Mica-group minerals	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction
copper chromite black spinel	ACGIH TLV (United States). : 0.5 mg/m <sup>3</sup> Form: Total dust
ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.
butan-1-ol	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. TWA: 20 ppm 8 hours.
crystalline silica, respirable powder (<10 microns)	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable
toluene	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours.

Key to abbreviations

STEL	<ul> <li>Short term exposure limit</li> </ul>
TLV	= Threshold Limit Value
TWA	<ul> <li>Time Weighted Average</li> </ul>

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

= Internal Permissible Exposure Limit

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 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.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Mexico Page: 6/15

Product name HI-TEMP 500 BLUE RAL 5023

# **SECTION 8: Exposure controls/personal protection**

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: 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	: For prolonged or repeated handling, use the following type of gloves:
	Not recommended: nitrile rubber Recommended: butyl rubber, neoprene, polyvinyl alcohol (PVA), Viton ${ m I}$
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	<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**

: Liquid.
: Blue.
: Hydrocarbon.
: Not available.
: Not applicable.
: Not applicable.
: Not available.
: >37.78°C (>100°F)
: Closed cup: 24°C (75.2°F)
: Not available.

# **SECTION 9: Physical and chemical properties**

Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.41
Density(lbs / gal)	: 11.77
Solubility	: Insoluble in the following materials: cold water.
Solubility in water	: Not available.
Partition coefficient: n-	: Not applicable.
octanol/water	
Viscosity	: Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Volatility	: 60% (v/v), 42.178% (w/w)
% Solid. (w/w)	: 57.822

# **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 Formaldehyde. metal oxide/oxides

# **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dimethyl carbonate	LC50 Inhalation Vapor	Rat	140000 mg/m <sup>3</sup>	4 hours
-	LD50 Dermal	Rabbit	2.5 g/kg	-
	LD50 Oral	Rat	12.9 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
copper chromite black spinel	LD50 Oral	Rat	10 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
butan-1-ol	LC50 Inhalation Vapor	Rat	24000 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 hours
			Mexi	co Page: 8/1

roduct code 00438051 roduct name HI-TEMP 500	) BLUE R	RAL 502	3		Date of i	ssue	12 Ma	rch 2022	V	/ersion 2
ECTION 11: Toxic	cologic	al info	orma	tior	า					
toluene	LD50 Oral		Rabbit Rat Rat Rabbit Rat	t t bbit		3400 mg/kg 790 mg/kg 49 g/m <sup>3</sup> 8.39 g/kg 5580 mg/kg		- - 4 hours - -		
Conclusion/Summary rritation/Corrosion	: There a	re no data	a availab	ole on	the mixtu	re itsel	lf.		•	
Product/ingredient name	Result			Spe	cies	Score		Exposure		Observation
xylene	Skin - Mo	derate irri	tant	Rabl	oit	-		24 hours 50 mg	00	-
<u>Conclusion/Summary</u> Skin	: There a	re no data	a availab	le on	the mixtu	re itsel	lf.			
Eyes	: There a	re no data	a availab	le on	the mixtu	re itsel	lf.			
Respiratory	: There a	re no data	a availab	le on	the mixtu	re itsel	lf.			
Sensitization										
Conclusion/Summary										
Skin	: There are no data available on the mixture itself.									
Respiratory	: There are no data available on the mixture itself.									
<u>Mutagenicity</u>										
Conclusion/Summary	: There a	re no data	a availab	le on	the mixtu	re itsel	lf.			
<u>Carcinogenicity</u>										
Conclusion/Summary	: There a	re no data	a availab	le on	the mixtu	re itsel	lf.			
<b>Classification</b>										
Product/ingredient name	OSHA	IARC	NTP							
Cobalt aluminate blue spinel	-	2B	Reaso	onably	anticipat	ed to b	e a hu	man carcino	ge	n.
xylene	-	3	-						-	
titanium dioxide copper chromite black spinel	-	2B 3	-							
ethylbenzene	-	3 2B	-							
crystalline silica, respirable powder (<10 microns)	-	1	Knowr	n to b	e a huma	n carci	nogen.			
toluene	-	3	-							
Carcinogen Classification	n code:									
IARC: 1, 2A, 2B, 3, NTP: Known to b OSHA: + Not listed/not regi	e a human ca	arcinogen; F	Reasonab	ly anti	cipated to <b>k</b>	oe a hun	nan carc	inogen		
Reproductive toxicity										
	: There a	re no data	a availah	le on	the mixtu	re itsel	lf.			
Conclusion/Summary Teratogenicity	: There a	re no data	a availab	le on	the mixtu	re itsel	lt.			

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

Specific target organ toxicity (single exposure)

# **SECTION 11: Toxicological information**

Name	Category	Route of exposure	Target organs
dímethyl carbonate	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
butan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
toluene	Category 2	-	-

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, cardiovascular system, 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		
Eye contact	uses serious eye irritation.	
Inhalation	ay cause respiratory irritation.	
Skin contact	ay be harmful in contact with skin. Causes skin irritation. Defatting to the s	kin.
Ingestion	known significant effects or critical hazards.	
Over-exposure signs/sympto		
Eye contact	verse symptoms may include the following: in or irritation itering dness	
Inhalation	verse symptoms may include the following: spiratory tract irritation ughing duced fetal weight crease in fetal deaths eletal malformations	

Product code 00438051 Product name HI-TEMP 500 BLUE RAL 5023

# **SECTION 11: Toxicological information**

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
Delayed and immediate effect	<u>:ts</u>	and also chronic effects from short and long term exposure
Conclusion/Summary		There are no data available on the mixture itself. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. 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. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). 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 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.
Short term exposure Potential immediate	:	There are no data available on the mixture itself.
effects Potential delayed effects		There are no data available on the mixture itself.
Long term exposure	1	
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 effe	<u>cts</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.
	۰.	May cause cancer. Risk of cancer depends on duration and level of exposure.
Carcinogenicity		,
Carcinogenicity Mutagenicity		No known significant effects or critical hazards.

#### Version 2

#### Product name HI-TEMP 500 BLUE RAL 5023

# **SECTION 11: Toxicological information**

#### **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)
H-TEMP 500 BLUE RAL 5023	15420.6	2975.5	N/A	55.7	7.1
dimethyl carbonate	12900	2500	N/A	140	N/A
xylene	4300	1700	N/A	11	1.5
copper chromite black spinel	10000	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
butan-1-ol	790	3400	N/A	24	N/A
toluene	5580	8390	N/A	49	N/A

# **SECTION 12: Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
dimethyl carbonate	Acute LC50 >100 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
butan-1-ol	Acute LC50 1376 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
<b>e</b> thylbenzene	-	79 % - Readily - 10	days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
<mark>xy</mark> lene ethylbenzene toluene	- - -		- - -		Readily Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
dimethyl carbonate	0.354	-	low
xylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
butan-1-ol	1	-	low
toluene	2.73	8.32	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

#### **Other adverse effects**

: No known significant effects or critical hazards.

Product name HI-TEMP 500 BLUE RAL 5023

### **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. 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

### **SECTION 14: Transport information**

	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group		III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	Not applicable.	Not applicable.	Not applicable.
RQ substances	Not applicable.	Not applicable.	Not applicable.

#### Additional information

Mexico	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: 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.

Product name HI-TEMP 500 BLUE RAL 5023

### **SECTION 14: Transport information**

Transport in bulk according : Not applicable. to IMO instruments

### **SECTION 15: Regulatory information**

#### <u>Mexico</u>

Classification

Flammability : 3 Health : 3 Reactivity : 1

#### International regulations

**Montreal Protocol** 

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

# **SECTION 16: Other information**

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

Health : 3 \* 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. 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.

Date of previous issue Organization that prepared the SDS	: <b>4/6/2020</b> : 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.

#### Notice to reader

The information, which is based on the current knowledge of the chemical substance or mixture and applies to appropriate safety precautions for the product, is deemed correct but is not exhaustive and will be used only as a guide.

#### **Disclaimer**

### **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.