SAFETY DATA SHEET



Date of issue 9 October 2024

Version 1.03

Section 1. Product and company identification

Product name
Product code
Other means of identification
Product type

- : SIGMADUR 520/550 HARDENER
- : 000001195999
- : 00467483; 00467484; 00467485
- : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Coating. Paints. Painting-related materials.

Uses advised against	Reason
Not applicable.	

Supplier's details:	
Supplier	 PPG INDUSTRIES CHILE S.A. Puerto Madero 9710, Of. 23 Pudahuel - Chile Teléfono: +56 (2) 2571 0750 Fax: +56 (2) 2571 0752
Email address:	: HazComLatam@ppg.com
Emergency telephone number	: +56 (2) 2777 1994 (RITA CHILE)

Section 2. Hazards identification

substance or mixture	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3
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Code 000001195999 Product name SIGMA	Date of issue DUR 520/550 HARDENER	9 October 2024	Version	1.03
Section 2. Haza	rds identification			
Target organs	: Contains material which causes of nervous system (CNS). Contains material which may cau lungs, the nervous system, liver, cornea.	ise damage to the followi	ng organs: bloo	d, kidneys
	Percentage of the mixture consis toxicity: 1.2% Percentage of the mixture consis toxicity: 1.7%			
GHS label elements				
Hazard pictograms		>		
Signal word	: Warning			
Hazard statements	 Flammable liquid and vapor. May be harmful if swallowed or in Causes skin irritation. May cause an allergic skin reaction Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. Suspected of causing cancer. Harmful to aquatic life with long la 	on.		
Precautionary statemen	ts	-		
Prevention	: Obtain special instructions before and eye or face protection. Keep flames and other ignition sources ventilating or lighting equipment. static discharges. Avoid release thoroughly after handling.	away from heat, hot sur b. No smoking. Use explo Use non-sparking tools.	faces, sparks, c osion-proof elec Take action to	pen trical, prevent
Response	: F exposed or concerned: Get me POISON CENTER or doctor if yo CENTER or doctor if you feel unv rash occurs: Get medical advice wash it before reuse. IF IN EYES Remove contact lenses, if preser persists: Get medical advice or at	u feel unwell. IF ON SKI well. Wash with plenty of or attention. Take off co S: Rinse cautiously with v nt and easy to do. Contine	N: Call a POIS water. If skin i ntaminated clot vater for severa	ON rritation o hing and I minutes.
Storage	: Store in a well-ventilated place. K	keep container tightly clos	sed. Keep cool.	
Disposal	: Dispose of contents and containe and international regulations.	er in accordance with all I	ocal, regional, r	ational

Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.
Classification according to NCh382:	:	3

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Section 2. Hazards identification

Label according to NCh2190:



Section 3. Composition/information on ingredients

Substance/mixture	÷	Mixture
Other means of identification	:	00467483; 00467484; 00467485

CAS number/other identifiers

CAS number : Not applicable.					
Ingredient name	%	CAS number			
Hexamethylene diisocyanate, oligomers. xylene n-butyl acetate ethylbenzene Solvent naphtha (petroleum), light aromatic 1,2,4-trimethylbenzene	60 - 100 12.5 - <15 3 - <5 2 - <3 1 - <2 1 - <2	28182-81-2 1330-20-7 123-86-4 100-41-4 64742-95-6 95-63-6			

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.

SUB codes represent substances without registered CAS Numbers.

Section 4. First aid measures

Description of necessary fire	st ai	<u>d measures</u>
Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Indication of immediate med	dical	attention and special treatment needed, if necessary
Notes to physician Specific treatments		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. 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.
Potential acute health effect	t <u>s</u>	

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Section 4. First aid measures

Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	 May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Name and the second sec	
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides Cyanate and isocyanate. hydrogen cyanide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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Section 6. Accidental release measures

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

Section 7. Handling and storage

Precautions for safe handling

: 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. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Section 7. Handling and storage

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. See Section 10 for incompatible materials before handling or use. Precautions should be taken to minimize exposure to atmospheric humidity or water. CO ₂ will be formed, which, in closed containers, could result in
	water. CO_2 will be formed, which, in closed containers, could result in pressurization.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits			
Fexamethylene diisocyanate, oligomers. xylene		Not regulated. Ministry of Health (Chile, 2/2018) [Xileno] TWA 8 hours: 380 mg/m ³ . TWA 8 hours: 87 ppm. STEL 15 minutes: 150 ppm. STEL 15 minutes: 651 mg/m ³ .	
n-butyl acetate		Ministry of Health (Chile, 2/2018) TWA 8 hours: 624 mg/m ³ . TWA 8 hours: 131 ppm. STEL 15 minutes: 200 ppm. STEL 15 minutes: 950 mg/m ³ .	
ethylbenzene		Ministry of Health (Chile, 2/2018) TWA 8 hours: 380 mg/m ³ . TWA 8 hours: 87 ppm. STEL 15 minutes: 125 ppm. STEL 15 minutes: 543 mg/m ³ .	
Solvent naphtha (petroleum), li 1,2,4-trimethylbenzene	ight aromatic	Not regulated. ACGIH TLV (United States, 7/2023) TWA 8 hours: 10 ppm.	
Recommended monitoring procedures		priate monitoring standards. Reference to tho the termination of hazardous	
Appropriate engineering controls	contaminants below any recommend	ols to keep worker exposure to airborne ed or statutory limits. The engineering controls concentrations below any lower explosive	
Environmental exposure controls	: Emissions from ventilation or work pr	ocess equipment should be checked to ensure environmental protection legislation. In some ineering modifications to the process	

Individual protection measures

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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. 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 protection Skin protection	: Chemical splash goggles.	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
Gloves	: butyl rubber	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear 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.	
Respiratory protection	: Use an air-fed respirator unless a site-specific assessment determines that an air- fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. 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.	

Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Colorless.
Odor	: Aromatic. [Slight]
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 38°C (100.4°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.08

Section 9. Physical and chemical properties

Solubility/ice)		Media	Result	
Solubility(ies)	1	cold water	Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	1	Not available.		
Decomposition temperature	1	Not available.		
Viscosity	:	Kinematic (room ter	nperature): Not available. mperature): Not available. 04°F)): >21 mm²/s (>21 cSt)	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: In a fire, hazardous decomposition products may be produced.
Incompatible materials	: Keep away from: oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohols.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials Cyanate and isocyanate. carbon oxides nitrogen oxides hydrogen cyanide

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Hexamethylene diisocyanate, oligomers.	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Female	>2500 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
-	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 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	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
-	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
-	LD50 Oral	Rat	5 g/kg	-
Conclusion/Summary	: There are no data available or	the mixture itse	lf.	

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Section 11. Toxicological information

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Product/ingredient name	Result		Species	Score	Exposure	Observation
xylene	Skin - Mod	erate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary				I		
Skin	: There ar	e no data av	vailable on the mi	xture itself.		
Eyes	: There ar	e no data av	vailable on the mi	xture itself.		
Respiratory	: There ar	e no data av	vailable on the mi	xture itself.		
Sensitization						
Not available.						
Conclusion/Summary						
Skin	: There ar	e no data av	vailable on the mi	xture itself.		
Respiratory	: There ar	e no data av	vailable on the mi	xture itself.		
Mutagenicity						
Not available.						
Conclusion/Summary	: There ar	e no data av	vailable on the mi	xture itself.		
Carcinogenicity						
Not available.						
Conclusion/Summary	• Thoro or	o no data ai	vailable on the mi	vturo iteolf		
Classification		e no uala av				
Product/ingredient name	OSHA	IARC	NTP			
	USHA					
xylene ethylbenzene	-	0.0	-			
Carcinogen Classification	code:	20				
IARC: 1, 2A, 2B, 3,						
NTP: Known to be		nogen; Reaso	nably anticipated to	be a human cai	rcinogen	
OSHA: + Not listed/not regu	lated: -					
Reproductive toxicity						
Not available.						
Conclusion/Summary	: There ar	e no data av	vailable on the mi	xture itself.		

Teratogenicity

Not available.

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
Hexamethylene diisocyanate, oligomers.	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
n-butyl acetate	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

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Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Target organs

 Contains material which causes damage to the following organs: brain, central nervous system (CNS).
 Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, upper respiratory tract, skin, 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 effect	: Not available.
	—
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing

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Section 11. To:	xicological	information			
Skin contact	: Adverse s irritation redness dryness cracking	symptoms may include th	e following:		
Ingestion	: No specif	fic data.			
Delayed and immediate	effects and also o	chronic effects from sh	ort and long term expo	<u>sure</u>	
Conclusion/Summary	monomer isocyanat mixture m leading to exposure solvent va may resul system in system. S weakness cause sol evidence constant l noise alor damage. account, v compone	e no data available on the r may lead to allergic lung te components and consi- nay cause acute irritation o an asthmatic condition, anay lead to permanent apor concentrations in ex- lt in adverse health effect ritation and adverse effect Symptoms and signs inc s, drowsiness and, in ext me of the above effects I that repeated exposure f loud noise can cause gre ne. If splashed in the eye Ingestion may cause na where known, delayed are ents from short-term and exposure and eye contact	g reaction. Based on the dering toxicological data and/or sensitization of the wheezing and tightness of respiratory disability. Exp cess of the stated occup ts such as mucous mem ots on the kidneys, liver a ude headache, dizziness reme cases, loss of cons by absorption through the to organic solvent vapors eater hearing loss than ex- tes, the liquid may cause is usea, diarrhea and vomit nd immediate effects and ong-term exposure by or	properties of the on similar mixt ine respiratory sy of the chest. R posure to comp ational exposure brane and resp ind central nerves, fatigue, music ciousness. So skin. There is in combination combination combination combination and re ting. This takes a lalso chronic e	ne ures, this ystem, epeated oonent re limit iratory rous cular lvents ma some n with xposure to versible s into ffects of
Short term exposure Potential immediate	: There are	e no data available on the	e mixture itself.		
effects		united the states of		
Potential delayed effe	inere are	e no data available on the	e mixture itself.		
Potential immediate effects	: There are	e no data available on the	e mixture itself.		
Potential delayed effe		e no data available on the	e mixture itself.		
Potential chronic healt	<u>h effects</u>				
Not available.					
General	or dermat	d or repeated contact can titis. Once sensitized, a s ently exposed to very low	severe allergic reaction n		
Carcinogenicity	: Suspecte	d of causing cancer. Ris	k of cancer depends on	duration and le	vel of

- **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** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
SIGMADUR 520/550 HARDENER	2920.8	2578.0	N/A	12.0	1.6
Hexamethylene diisocyanate, oligomers.	2500	2500	N/A	11	1.5
xylene	4300	1700	N/A	11	1.5
n-butyl acetate	10768	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-trimethylbenzene	5000	N/A	N/A	18	1.5

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Hexamethylene diisocyanate, oligomers.	Acute EC50 >1000 mg/l	Algae - scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Daphnia - <i>daphnia magna</i>	48 hours
	Acute LC50 >100 mg/l	Fish - Danio rerio (zebra fish)	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum		
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		83 % - Readily - 28 days		-		-
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-		
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability		
Hexamethylene diisocyanate, oligomers.	-		-		Not rea	dily		
xylene n-butyl acetate ethylbenzene	-		-		Readily Readily Readily	1		

Bioaccumulative potential

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Section 12. Ecolo	gical inform	nation		
Product/ingredient name	LogPow	BCF		Potential
Hexamethylene diisocyanate, oligomers.	5.54	3.2		Low
xylene	3.12	7.4 to 18	8.5	Low
n-butyl acetate	2.3	-		Low
ethylbenzene	3.6	79.43		Low
1,2,4-trimethylbenzene	3.63	120.23		Low
coefficient (K _{oc}) Other adverse effects	• No known sign	ificant effects or critic	cal hazards	
Section 13. Dispo	•			
Disposal methods	Disposal of this with the require and any region recyclable prod disposed of un all authorities v or landfill shou	s product, solutions a ements of environme nal local authority requ ducts via a licensed v treated to the sewer with jurisdiction. Was Id only be considered	nd any by-products ntal protection and v uirements. Dispose vaste disposal contra unless fully complia ste packaging should when recycling is n	d wherever possible. should at all times comply waste disposal legislation of surplus and non- actor. Waste should not be nt with the requirements of d be recycled. Incineration to feasible. This material are should be taken when

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.

handling emptied containers that have not been cleaned or rinsed out. Empty

Section 14. Transport information

	UN	Brazil (ANTT)	IMDG	ΙΑΤΑ
UN number	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3	3
Packing group				
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

UN : No

: None identified.

Section 14. Transport information

Brazil	: None identified.
Risk number	: 30
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.

Transport in bulk according : Not applicable. to IMO instruments

Section 15. Regulatory information

Safety, health and environmental regulations	 NCh 382 - Hazardous substances - General terminology and classification. NCh 2245 - Material Safety Data Sheet for Chemicals - Contents and section order. D. S. 148 - Sanitary regulations on hazardous waste management. 	
specific for the product	D. S. 146 - Sanitary regulations of hazardous waste management. D. S. 298 - Transport of dangerous goods by road. D. S. 374 – Limit for Lead content in paints.	
	D. S. 594 - Regulation on basic sanitary and environmental conditions at workplace.	

Section 16. Other information

<u>History</u>	
Date of previous issue	: 6/11/2024
Version	: 1.03
	EHS
Key to abbreviations	 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
	UN = United Nations
References	: ABNT NBR 14725-4: 2014
	ANTT - National Land Transportation Agency

Indicates information that has changed from previously issued version.

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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.