SAFETY DATA SHEET



Date of issue

14 September 2023

Version 1.01

Section 1. Product and company identification

Product name Product code Other means of identification Product type

: SIGMASHIELD 880 BASE ALU Y/G 9002CO2150 : 00444799CO

- entification : Not available.
 - tion . Notava
 - : 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 Colombia Ltda Calle 51 # 40-13 Municipio de Itagüí Antioquia, Colombia (57) (4) 3787400 (Porteria)
Email address:	:	HazComLatam@ppg.com
Emergency telephone number	:	Colombia: 01 8000 916012 (CISPROQUIM) + 571 288 6012 (CISPROQUIM) Ecuador: 1800-59-3005 (CISPROQUIM) Peru: 080-050-847 (CISPROQUIM)

Section 2. Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

Code 004447990 Product name		Date of issue 880 BASE ALU Y/G 9002CO2150	14 September 2023	Version	1.01			
Section 2. H	azards i	dentification						
Target organs	:	Contains material which causes da nervous system (CNS), eye, lens of Contains material which may caus lungs, the nervous system, liver, g respiratory tract, skin.	or cornea. e damage to the following	g organs: bloc	od, kidneys			
		Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 58.2%						
GHS label elements								
Hazard pictogram	—		>					
Signal word	:	Danger						
Hazard statements	s :	Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction Causes serious eye irritation. Suspected of causing genetic defe May cause cancer. Harmful to aquatic life with long las	ects.					
Precautionary stat	tements		-					
Prevention	:	Obtain special instructions before and eye or face protection. Keep a flames and other ignition sources. ventilating or lighting equipment. I static discharges. Avoid release to thoroughly after handling.	away from heat, hot surfa No smoking. Use explos Jse non-sparking tools. 1	ces, sparks, o ion-proof elec ake action to	open ctrical, prevent			
Response	:	IF exposed or concerned: Get med clothing and wash it before reuse. irritation or rash occurs: Get medic cautiously with water for several m easy to do. Continue rinsing. If eye attention.	IF ON SKIN: Wash with cal advice or attention. IF inutes. Remove contact le	plenty of wate IN EYES: Rin enses, if pres	er. If skin nse ent and			
Storage	:	Store in a well-ventilated place. Ke	ep cool.					
Disposal	:	Dispose of contents and container and international regulations.	in accordance with all loc	al, regional, r	national			

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

result in classification

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

CAS number/other identifiers

CAS number

: Not applicable.

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane	20 - <30	1675-54-3
Talc, not containing asbestiform fibres	12.5 - <15	14807-96-6
Aluminium powder (stabilized)	5 - <7	7429-90-5
Epoxy Resin (700 <mw<=1100)< td=""><td>3 - <5</td><td>25036-25-3</td></mw<=1100)<>	3 - <5	25036-25-3
Phenol, methylstyrenated	3 - <5	68512-30-1
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	3 - <5	64742-48-9
2-methylpropan-1-ol	2 - <3	78-83-1
2,3-epoxypropyl neodecanoate	2 - <3	26761-45-5
m-xylene	1 - <2	108-38-3
xylene	1 - <2	1330-20-7
12-hydroxyoctadecanoic acid, reaction products with	1 - <2	220926-97-6
1,3-benzenedimethanamine and hexamethylenediamine		
ethylbenzene	0.2 - <0.5	100-41-4
proprietary microcrystalline silica	0.1 - <0.2	SUB126659

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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 first aid measures

Eye contact	:	Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Indication of immediate med	ica	l 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 effects	5	
Eye contact	:	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. 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 metal oxide/oxides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

contractor.

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

tools ntry into an with non- us earth on 13). ent on 1 for

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.
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 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 1/2022).
	TWA: 2 mg/m ³ 8 hours. Form: Respirable
Aluminium powder (stabilized)	ACGIH TLV (United States, 1/2022).
	[Aluminum, metal and insoluble
	compounds]
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
2-methylpropan-1-ol	ACGIH TLV (United States, 1/2022).
	TWA: 152 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
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Section 8. Exposure controls/personal protection

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L				1			
	m-xylene			[xylene a	LV (United States, 1/2022). Il isomers]		
	xylene			TWA: 20 ppm 8 hours. ACGIH TLV (United States, 1/2022). [p- xylene and mixtures containing p-xyler Ototoxicant.			
	12-hydroxyoctadecanoic acid 1,3-benzenedimethanamine a			ACGIH TI TWA: 10) ppm 8 hours. _V (United States).) mg/m³ Form: Inhalable particle mg/m³, (inhalable dust) Form: e particle		
	Recommended monitoring procedures	:	Reference should be made to approprinational guidance documents for meth substances will also be required.				
	Appropriate engineering controls	:	Use only with adequate ventilation. Use ventilation or other engineering contro contaminants below any recommender also need to keep gas, vapor or dust of limits. Use explosion-proof ventilation	ls to keep ed or statute concentrati	worker exposure to airborne ory limits. The engineering control ons below any lower explosive	s	
	Environmental exposure controls	:	Emissions from ventilation or work pro they comply with the requirements of cases, fume scrubbers, filters or engine equipment will be necessary to reduce	environmer neering mo	ntal protection legislation. In some difications to the process		
<u>lr</u>	ndividual protection measure	<u>es</u>					
	Hygiene measures Eye protection		Wash hands, forearms and face thoro before eating, smoking and using the Appropriate techniques should be use Contaminated work clothing should no contaminated clothing before reusing. showers are close to the workstation I Chemical splash goggles.	lavatory an d to remov ot be allowe Ensure th	nd at the end of the working period. re potentially contaminated clothing ed out of the workplace. Wash		
	Skin protection						
	Hand protection	:	Chemical-resistant, impervious gloves be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break different for different glove manufactur several substances, the protection time estimated.	emical pro rameters s till retainin through for rers. In the	ducts if a risk assessment indicates pecified by the glove manufacturer g their protective properties. It r any glove material may be e case of mixtures, consisting of	s	
	Gloves	÷	butyl rubber				
	Body protection	:	Personal protective equipment for the being performed and the risks involve before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include an	d and shou here is a ris or the great	Id be approved by a specialist k of ignition from static electricity, test protection from static		
	Other skin protection	:	Appropriate footwear and any addition selected based on the task being performance approved by a specialist before handli	al skin pro ormed and	tection measures should be the risks involved and should be		
Γ			En	glish (US)	Colombia 6/1	15	

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Product name SIGMASI	HIELD 880 BASE ALU Y/G 9002CO2150					
Section 8. Expos	Section 8. Exposure controls/personal protection					
Respiratory protection	: Respirator selection must be base hazards of the product and the sa workers are exposed to concentra	fe working limits of the sel	ected respira	tor. 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	1	Liquid.		
Color	1	Not available.		
Odor	1	Not available.		
рН	1	Not applicable.		
Melting point	1	Not available.		
Boiling point	:	>37.78°C (>100°F)		
Flash point	:	Closed cup: 37°C (98.6°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	1.69		
Solubility(ies)	:	Media	Result	
		cold water	Not soluble	
Partition coefficient: n- octanol/water	:	Not applicable.		
Auto-ignition temperature	:	Not available.		
Decomposition temperature	:	Not available.		
Viscosity	:	Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)		
Viscosity	:	40 - <60 s (ISO 6mm)		

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.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

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Section 10. Stability and reactivity

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
bis-[4-(2,3-epoxipropoxi) phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
phenyipropane	LD50 Oral	Rat	15000 mg/kg	_
Aluminium powder (stabilized)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
· · · · · ·	LD50 Oral	Rat	>15900 mg/kg	-
Epoxy Resin (700 <mw <=1100)</mw 	LD50 Dermal	Rat	>2000 mg/kg	-
,	LD50 Oral	Rat	>2000 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Hydrocarbons, C10-C13, n- alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 Dermal	Rabbit	>5000 mg/kg	-
< 2% aromatics		Dat		
O methydronen 1 el	LD50 Oral	Rat	>6 g/kg	-
2-methylpropan-1-ol	LC50 Inhalation Vapor	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
2,3-epoxypropyl	LD50 Dermal	Rat	3800 mg/kg	-
neodecanoate		D.1	0.0	
	LD50 Oral	Rat	9.6 g/kg	-
m-xylene	LC50 Inhalation Vapor	Rat	27124 mg/m ³	4 hours
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine	LC50 Inhalation Dusts and mists	Rat	3.56 mg/l	4 hours
and hexamethylenediamine				
·······	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/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	-

Conclusion/Summary

I here are no data available on the mixture itself.

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result			Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxi) bhenyl]propane	Eyes - Mile	d irritant		Rabbit	-	24 hours	-
	Eyes - Reo conjunctiva		f the	Rabbit	0.4	24 hours	-
	Skin - Ede			Rabbit	0.5	4 hours	-
	Skin - Eryt	hema/E	schar	Rabbit	0.8	4 hours	-
	Skin - Mild			Rabbit	-	4 hours	-
m-xylene	Skin - Moo	lerate iri	ritant	Rabbit	-	24 hours 500	-
xylene	Skin - Moo	lerate iri	ritant	Rabbit	-	mg 24 hours 500 mg	-
Conclusion/Summary							1
Skin	: There a	re no da	ita availa	ble on the mi	xture itself.		
Eyes	: There a	re no da	ita availa	ble on the mi	xture itself.		
Respiratory	: There a	re no da	ita availa	ble on the mi	xture itself.		
Sensitization							
Product/ingredient name	Route of		Species		1	Result	
	exposure						
bis-[4-(2,3-epoxipropoxi) phenyl]propane	skin		Mouse			Sensitizing	
Conclusion/Summary							
Skin	: There a	re no da	ata availa	ble on the mi	xture itself.		
Respiratory	: There a	re no da	ta availa	ble on the mi	xture itself.		
<u>Mutagenicity</u>							
Not available.							
Conclusion/Summary	: There a	re no da	ata availa	ble on the mi	xture itself.		
Carcinogenicity							
Not available.							
Conclusion/Summary	: There a	re no da	ita availa	ble on the mi	xture itself		
<u>Classification</u>							
Product/ingredient name	OSHA	IARC	NTP				
bis-[4-(2,3-epoxipropoxi)	-	3	-				
phenyl]propane		2					
m-xylene xylene	-	3 3	-				
ethylbenzene		2B					
proprietary microcrystalline	-	1	Kno	wn to be a hu	ıman carciı	nogen.	
Carcinogen Classification	code:		1				
IARC: 1, 2A, 2B, 3,							
NTP: Known to be		inogen; F	Reasonably	y anticipated to	be a human	carcinogen	

Not listed/not regulated: -

Reproductive toxicity

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Section 11. Toxicological information

Not available.

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

Teratogenicity

Not available.

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

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
2-methylpropan-1-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
m-xylene	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

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Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	Category 2	inhalation	lungs
ethylbenzene proprietary microcrystalline silica	Category 2 Category 1	- inhalation	hearing organs lungs

Target organs

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

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

Aspiration hazard

Name	Result
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	ASPIRATION HAZARD - Category 1
2-methylpropan-1-ol	ASPIRATION HAZARD - Category 2
m-xylene	ASPIRATION HAZARD - Category 1
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.	
Potential acute health effects			
Eye contact	1	Causes serious eye irritation.	
Inhalation	1	No known significant effects or critical hazards.	
Skin contact	:	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.	
			1
		English (US) Colombia 10	10/15

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Section 11. T	oxicological informa	tion		
Ingestion	: No known significant e	ffects or critical hazards.		
Symptoms related to	the physical, chemical and toxic	ological characteristics		
Eye contact	: Adverse symptoms ma pain or irritation watering redness	ay include the following:		
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms ma irritation redness dryness cracking	y include the following:		
Ingestion	: No specific data.			
Delayed and immedia	te effects and also chronic effec	ts from short and long term expos	ure	

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 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.
<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.
<u>Long 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.
Potential chronic health eff	ect	<u>S</u>
Not available.		
General	:	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	Suspected of causing genetic defects.
Reproductive toxicity	:	No known significant effects or critical hazards.

English (US)

Colombia

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)
GMASHIELD 880 BASE ALU Y/G 9002CO2150	13438.9	5867.1	N/A	184.3	40.6
bis-[4-(2,3-epoxipropoxi)phenyl]propane	15000	23000	N/A	N/A	N/A
Epoxy Resin (700 <mw<=1100)< td=""><td>2500</td><td>2500</td><td>N/A</td><td>N/A</td><td>N/A</td></mw<=1100)<>	2500	2500	N/A	N/A	N/A
Phenol, methylstyrenated	2500	2500	N/A	N/A	N/A
2-methylpropan-1-ol	2830	2460	N/A	24.6	N/A
2,3-epoxypropyl neodecanoate	9600	3800	N/A	N/A	N/A
m-xylene	3523	1100	N/A	11	N/A
xylene	4300	1700	N/A	11	1.5
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine	2500	2500	N/A	N/A	3.56
ethylbenzene	3500	17800	N/A	17.8	1.5

Other information

: Not available.

Section 12. Ecological information

Ecotoxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi) phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,3-epoxypropyl neodecanoate	Acute EC50 3.5 mg/l	Algae	96 hours
	Acute EC50 4.8 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 9.6 mg/l	Fish - Oncorhynchus mykiss	96 hours
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata (microalgae)	72 hours
and hexamethylenediamine	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i> (Water flea)	48 hours
	Acute LC50 >100 mg/l	Fish - Oncorhynchus mykiss (rainbow trout)	96 hours
	Chronic NOEC 100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC ≥50 mg/l	Daphnia - Daphnia magna (Water flea)	21 days
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

Persistence/degradability

English (US)	Colombia	12/15
Eligiish (03)	COlonibia	12/15

Section 12. Ecological information

	<u> </u>	1		1		1
Product/ingredient name	Test	Result		Dose		Inoculum
m-xylene	OECD 301F	98 % - Rea	dily - 28 days	-		-
12-hydroxyoctadecanoic	OECD 301D	9 % - Not r	eadily - 29 days	-		-
acid, reaction products with	Ready					
1,3-benzenedimethanamine	Biodegradability -					
and hexamethylenediamine	Closed Bottle					
	Test					
ethylbenzene	-	79 % - Rea	dily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
bis-[4-(2,3-epoxipropoxi)	-		-		Not rea	adily
phenyl]propane						-
2,3-epoxypropyl	-		-		Not rea	adily
neodecanoate						
m-xylene	-		-		Readil	у
xylene	-		-		Readil	У
ethylbenzene	-		-		Readil	у

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Phenol, methylstyrenated	3.627	-	Low
2-methylpropan-1-ol	1	-	Low
2,3-epoxypropyl	4.4	-	High
neodecanoate			_
m-xylene	3.2	14.79	Low
xylene	3.12	7.4 to 18.5	Low
12-hydroxyoctadecanoic	>6	-	High
acid, reaction products with			
1,3-benzenedimethanamine			
and hexamethylenediamine			
ethylbenzene	3.6	79.43	Low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the
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English (US)	Colombia	13.

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Section 13. Disposal considerations

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.

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	III	III	III	III
Environmental hazards	No.	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

UN	: None identified.
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	1	No known specific national and/or regional regulations applicable to this product
environmental regulations		(including its ingredients).
specific for the product		

Section 16. Other information

<u>History</u>	
Date of previous issue	: 9/12/2023
Version	: 1.01
	EHS

Code	00444799CO	Date of issue	14 September 2023	Version	1.01
Product nam	ie și	GMASHIELD 880 BASE ALU Y/G 9002CO2150			

Section 16. Other information

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.

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.