SAFETY DATA SHEET

Date of issue/Date of revision 20 May 2021

Version 3.01



Section 1. Identification

Product code	: 00350955
Product name	: SIGMASHIELD 905 BASE RAL 1021
Product type	: Liquid.
Other means of identification Not available.	
Relevant identified uses of the	e substance or mixture and uses advised against
Product use	 Coating. Professional applications, Used by spraying.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
Company/undertaking identification	: PPG Industries Sales, Inc. and PPG Coatings (Philippines), Inc. 3rd Floor First Life Center 174 Salcedo St., Legaspi Village Makati City 1229, Philippines Tel # 00632- 752-6773/ Fax # 00632-752-6771
Emergency telephone number	: CHEMTREC +(63) 2-395-3308 (CCN 17704)

Section 2. Hazards identification

Classification of the	: ACUTE TOXICITY (oral) - Category 5
substance or mixture	ACUTE TOXICITY (dermal) - Category 5
	ACUTE TOXICITY (inhalation) - Category 4
	SKIN CORROSION/IRRITATION - Category 2
	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 2
	Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 14.4%
	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 28.1%
	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 70.7%
	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 37.8%
GHS label elements	
Hazard pictograms	
Signal word	: Warning

Section 2. Hazards identification

Hazard statements	 May be harmful if swallowed or in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Use only outdoors or in a wel ventilated area. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	Not applicable.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other hazards which do not : None known. result in classification

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number : Not applicable.		
Ingredient name	%	CAS number
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin 1,6-bis(2,3-epoxypropoxy)hexane Talc , not containing asbestiform fibres benzyl alcohol	25 - <50 5 - <10 5 - <10 5 - <10 5 - <10	25068-38-6 16096-31-4 14807-96-6 100-51-6

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 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.	

Section 4. First aid measures

Ingestion

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

Most important symptoms/	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin contact	: May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: May be harmful if swallowed.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic 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 halogenated compounds 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.

Section 5. Fire-fighting measures

Special prote	ctive	
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 : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. : If specialized clothing is required to deal with the spillage, take note of any For emergency responders 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. Collect spillage.

Methods and materia	Is for containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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	:	

Section 7. Handling and storage

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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		TLV (Philippines, 4/2016). TLV: 20 mppf 8 hours. Form: Dust
Recommended monitoring procedures	atmosphere or biological monitor of the ventilation or other control protective equipment. Reference	ts with exposure limits, personal, workplace ing may be required to determine the effectiveness measures and/or the necessity to use respiratory e should be made to appropriate monitoring I guidance documents for methods for the tances will also be required.
Appropriate engineering controls		n. Use process enclosures, local exhaust ontrols to keep worker exposure to airborne rended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or wor they comply with the requirement cases, fume scrubbers, filters or	rk process equipment should be checked to ensure ts of environmental protection legislation. In some engineering modifications to the process educe emissions to acceptable levels.
Individual protection measure	<u>95</u>	
Hygiene measures	eating, smoking and using the lay Appropriate techniques should be Contaminated work clothing shou	thoroughly after handling chemical products, before vatory and at the end of the working period. e used to remove potentially contaminated clothing. uld not be allowed out of the workplace. Wash using. Ensure that eyewash stations and safety tion location.
Eye/face protection	assessment indicates this is nece gases or dusts. If contact is poss	n approved standard should be used when a risk essary to avoid exposure to liquid splashes, mists, sible, the following protection should be worn, a higher degree of protection: chemical splash
Skin protection	0.00	
Hand protection	be worn at all times when handlin this is necessary. Considering th check during use that the gloves should be noted that the time to b different for different glove manua	loves complying with an approved standard should ng chemical products if a risk assessment indicates ne parameters specified by the glove manufacturer, are still retaining their protective properties. It preakthrough for any glove material may be facturers. In the case of mixtures, consisting of on time of the gloves cannot be accurately
Gloves	: butyl rubber	

Section 8. Exposure controls/personal protection

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.
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	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Odor : Characteristic. Odor : Characteristic. Odor threshold : Not available. Melting point/freezing point : Not available. Boiling point, initial boiling range : >37.78°C (>100°F) Flammability : Not available. Lower and upper explosive (flammable) limits : Not available. Flash point : Closed cup: 100°C (212°F) Auto-ignition temperature : Method N-(2,3-dihydro-2-oxo-1H-benzimidzo-5-yh)2-1 280 benzimidzo15-yh)2-1 280 12-areboxybenylazo] 536	Physical state Color	ł	Liquid. Yellow.						
Melting point/freezing point : Not available. Boiling point, initial boiling : >37.78°C (>100°F) point, and boiling range : Not available. Flammability : Not available. Lower and upper explosive : Not available. (flammable) limits : Not available. Flash point : Closed cup: 100°C (212°F) Auto-ignition temperature : Ingredient name °C °F N-(2,3-dihydro-2-oxo-1H-benzimidazol-5-yh)-2-[(2-methoxyphenyhjazo] 280 536 Decomposition temperature : Not available. pH : Not available. Viscosity : Kinematic (40°C): >21 mm²/s Solubility : Insoluble in the following materials: cold water. Solubility in water : Not available. Partition coefficient: n- cctanol/water : Not applicable. Vapor pressure : Ingredient name Ingredient name : Wapor Pressure at 20°C Vapor pressure at 50°C Ingredient name : Method mm Hg Vapor pressure : [] : [] : []	Odor		Characteristic.						
Boiling point, initial boiling point, and boiling range : >37.78°C (>100°F) Flammability : Not available. Lower and upper explosive : Not available. (flammable) limits : Closed cup: 100°C (212°F) Auto-ignition temperature : Closed cup: 100°C (212°F) Auto-ignition temperature : Ingredient name °C °F N-(2,3-dihydro-2-0xo-1H-berzimidazol-5-yi)-2-1 280 536 berzimidazol-5-yi)-2-1 (2-methoxyphenyhazo) -3-oxobutyramide Decomposition temperature : Not available. -3-oxobutyramide pH : Not available.	Odor threshold	:	Not available.						
Boiling point, initial boiling point, and boiling range : >37.78°C (>100°F) Flammability : Not available. Lower and upper explosive (flammable) limits : Not available. Flash point : Closed cup: 100°C (212°F) Auto-ignition temperature : Ingredient name N-(2,3-dihydro-2-oxo-1H- benzimidazol-5-yl)-2-1 (2-methoxyphenyl)azo] -3-oxobutyramide 280 Decomposition temperature : Not available. pH : Not available. Viscosity : Kinematic (40°C): >21 mm²/s Solubility : Insoluble in the following materials: cold water. Solubility : Not available. Partition coefficient: n- octanol/water : Not applicable. Vapor pressure : Not applicable. Vapor pressure : Not applicable. i.f.6-bis (2,3-epoxypropoxy) : 0:0:0*505535 0.009 u u	Melting point/freezing point	:	Not available.						
Lower and upper explosive (flammable) limits: Not available.Flash point: Closed cup: 100°C (212°F)Auto-ignition temperature:Ingredient name°CN'-(2,3-dihydro-2-oxo-1H- benzimidazol-5-yl)-2-[(2-methoxyphenyl)azo]Decomposition temperature pH: Not available.pH: Not available.Viscosity: Kinematic (40°C): >21 mm²/sSolubility: Insoluble in the following materials: cold water.Solubility in water: Not available.Partition coefficient: n- octanol/water: Not applicable.Vapor pressure:Vapor pressure:Ingredient name:Vapor pressure at 20°C:Vapor pressure at 50°CIngredient name:1.6-bis (2.3-epoxypropoxy):0.0075055350.0090.0075055350.009	Boiling point, initial boiling	:	>37.78°C (>100°F)						
(flammable) limits Flash point : Closed cup: 100°C (212°F) Auto-ignition temperature : Ingredient name °C °F Method N-(2,3-dihydro-2-oxo-1H- benzimidazol-5-yl)-2-[(2-methoxyphenyl)azo] -3-oxobutyramide 280 536 image: state sta	Flammability	:	Not available.						
Auto-ignition temperature : Ingredient name °C °F Method N-(2,3-dihydro-2-oxo-1H- benzimidazol5-yl)-2[(2-methoxybenyl)azo] -3-oxobutyramide 280 536		:	Not available.	lot available.					
N-(2,3-dihydro-2-oxo-1H- benzimidazol-5-yl)-2-[(2-methoxyphenyl)azo] -3-oxobutyramide 280 536 Decomposition temperature pH : Not available. Viscosity : Not applicable. Viscosity : Kinematic (40°C): >21 mm²/s Solubility : Insoluble in the following materials: cold water. Solubility in water : Not available. Partition coefficient: n- octanol/water : Not applicable. Vapor pressure : Not applicable. Vapor pressure : Not applicable. Ingredient name Method mm kPa Method Ingredient name 0.067505535 0.009 Ingredient Method mm kPa Method	Flash point	:	Closed cup: 100°C (2	212°F)					
benzimidazol-5-yl)-2-[(2-methoxyphenyl)azo] -3-oxobutyramide	Auto-ignition temperature	:	Ingredient name		°C	°F		Method	
pH : Not applicable. Viscosity : Kinematic (40°C): >21 mm²/s Solubility : Insoluble in the following materials: cold water. Solubility in water : Not available. Partition coefficient: n-octanol/water : Not applicable. Vapor pressure : Not applicable. Ingredient name Imm Hg KPa Method mm KPa I.6-bis 0.067505535 0.009 I.6-bis 0.067505535 0.009			benzimidazol-5-yl)-2-[(2-methoxyphenyl)azo]		280	536			
Viscosity:Kinematic (40°C): >21 mm²/sSolubility:Insoluble in the following materials: cold water.Solubility in water:Not available.Partition coefficient: n- octanol/water:Not applicable.Vapor pressure:Vapor Pressure at 20°CVapor pressure at 50°CIngredient namemm HgkPaMethodmm Hg1,6-bis (2,3-epoxypropoxy)0.0675055350.009Image: dot state	Decomposition temperature	:	Not available.	Not available.					
Solubility : Insoluble in the following materials: cold water. Solubility in water : Not available. Partition coefficient: n-octanol/water : Not applicable. Vapor pressure : Not applicable. Vapor pressure : Ingredient name Ingredient name mm Hg KPa Method mm KPa 1,6-bis 0.067505535 0.009	рН	:	Not applicable.						
Solubility in water : Not available. Partition coefficient: n-octanol/water : Not applicable. Vapor pressure : Not applicable. Vapor pressure : Not applicable. ingredient name Vapor Pressure at 20°C Vapor pressure at 50°C ingredient name ingredient name mm Hg kPa Method 1,6-bis 0.067505535 0.009 ingredient	Viscosity	:	Kinematic (40°C): >2						
Partition coefficient: n-octanol/water : Not applicable. Vapor pressure : Not applicable. Ingredient name Vapor Pressure at 20°C Vapor pressure at 50°C Ingredient name mm Hg kPa Method mm kPa Method 1,6-bis (2,3-epoxypropoxy) 0.067505535 0.009 0.009 0.009 0.009	Solubility	:	Insoluble in the follow	nsoluble in the following materials: cold water.					
octanol/water Vapor pressure : Ingredient name Vapor Pressure at 20°C Vapor pressure at 50°C mm Hg kPa Method mm Hg kPa Method 1,6-bis (2,3-epoxypropoxy) 0.067505535 0.009	Solubility in water	:	Not available.	Not available.					
Ingredient namemm HgkPaMethodmm HgkPaMethod1,6-bis (2,3-epoxypropoxy)0.0675055350.009Image: Comparison of the second		:	Not applicable.						
Hg 1,6-bis (2,3-epoxypropoxy) 0.067505535 0.009	Vapor pressure	:		Vapor Pressure at 20°C Vapor pressure at 50°C			ure at 50°C		
(2,3-epoxypropoxy)			Ingredient name	Ingredient name mm Hg kPa Method mm kPa Method				Method	
			(2,3-epoxypropoxy)	0.067505535	0.009				

Relative density Relative vapor density Particle characteristics Median particle size Evaporation rate

: Not available.

: 1.28

: Not applicable.

: Not available.

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.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/ oxides
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m ³	4 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Skin - Moderate irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				UI	
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	

Conclusion/Summary

- : There are no data available on the mixture itself. Skin Eyes
 - ÷ There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

Sensitization

Section 11. Toxicological information

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Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	skin	Mouse	Sensitizing
Conclusion/Summary		•	-
Skin	: There are no d	ata available on the mixture itse	lf.
Respiratory	: There are no data available on the mixture itself.		
Mutagenicity			
Conclusion/Summary	: There are no data available on the mixture itself.		
Carcinogenicity			
Conclusion/Summary	: There are no d	ata available on the mixture itse	lf.
Reproductive toxicity			
Conclusion/Summary	: There are no d	ata available on the mixture itse	lf.
Teratogenicity			
Conclusion/Summary	: There are no d	ata available on the mixture itse	lf.
Specific target organ toxicit	v (single exposur	0)	

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
benzyl alcohol	ASPIRATION HAZARD - Category 2

Information on the likely routes of exposure	Not available.	
Potential acute health effect		
Eye contact	Causes serious eye irritation.	
Inhalation	Harmful if inhaled.	
Skin contact	May be harmful in contact with skin. Causes skin irritation. May cause an allerg	gic
Ingestion	May be harmful if swallowed.	
Symptoms related to the ph	cal, chemical and toxicological characteristics	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	No specific data.	

Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	No specific data.
Delayed and immediate effe	and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.
Potential chronic health eff	<u>ts</u>
Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3343.57 mg/kg
Dermal	3159.2 mg/kg
Inhalation (dusts and mists)	4.86 mg/l

Other information

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.

Section 12. Ecological information

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<u>Toxicity</u>				
Product/ingredient name	Result	Species	Exposure	
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	Chronic NOEC 0.3 mg/l	Daphnia	21 days	

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	OECD 301F	5 % - 28 days	-	-

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Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	-	-	Not readily
benzyl alcohol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
1,6-bis(2,3-epoxypropoxy) hexane	0.822	-	low
benzyl alcohol	0.87	-	low

Mobility in soil

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

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Other adverse effects
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: 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	(reaction product: bisphenol- A-(epichlorhydrin); epoxy resin)
Transport hazard class(es)	9	9	9
Packing group		III	III

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Section 14. Transport information

	-		
Environmental	Yes.	Yes.	Yes.
hazards			
Marine pollutant substances	Not applicable.	(reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	Not applicable.

Additional information

UN	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
IMDG	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Special pre	cautions for user :Transport within user's premises: always transport in closed containers that are

utions 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

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 20 May 2021
Date of previous issue	: 5/18/2021
Version	: 3.01
Prepared by	: 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 = Internediate Bulk Container 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) UN = United Nations

Procedure used to derive the classification

Section 16. Other information

Classification	Justification
ACUTE TOXICITY (oral) - Category 5	Calculation method
ACUTE TOXICITY (dermal) - Category 5	Calculation method
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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