SAFETY DATA SHEET



according to WHMIS 2015 and ANSI Z400.1-2010

WEICON TB-Flex F Resin

Section 1. Identification

Product identifier	: WEICON TB-Flex F Resin
Product code	: 170011

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

Supplier's details	: WEICON GmbH & Co. KG Königsberger Str. 255 48157 Münster Germany Phone: +49 251 93220 Fax: +49(0)251 / 9322 - 244 Internet: www.weicon.de
e-mail address of person responsible for this SDS	: msds@weicon.de

National contact

WEICON Canada Inc. 20 Steckle Place, Unit 20 Kitchener, Ontario N2E 2C3, CA www.weicon.ca E-mail: info@weicon.ca Telephone: +1-519-896-5252 Telefax: +1-519-896-5254

Emergency telephone	: +1 866 928 0789 (24h - Toll free)
number	TRANSPORT EMERGENCY CONTACT :+1 866 928 0789 ((24h - Toll free)

Section 2. Hazard identification

	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
Response	: P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
Precautionary statements Prevention	 P280 - Wear protective gloves. Wear eye or face protection. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling.
Hazard statements	: H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.
Signal word	: Warning
<u>GHS label elements</u> Hazard pictograms	
Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

Section 2. Hazard identification

Disposal

: P501 - Dispose of waste according to applicable legislation.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane	≥30 - ≤60	1675-54-3
Reaction mass of 2,2'-[methylenebis (2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'- [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2- ({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane	≥10 - ≤30	9003-36-5
1,4-bis(2,3 epoxypropoxy)butane	≥1 - ≤5	2425-79-8
Orange, sweet, ext.	≥0.1 - ≤1	8028-48-6

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects	
Eye contact :	Causes serious eye irritation.
Inhalation :	No known significant effects or critical hazards.
Skin contact :	Causes skin irritation. May cause an allergic skin reaction.
Ingestion :	No known significant effects or critical hazards.

Date of issue/Date of revision

: No previous validation

Section 4. First-aid measures

Over-exposure signs/symp	<u>toms</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 mee	lical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	 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. 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".

Section 6. Accidental release measures

Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ontainment 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.

Section 7. Handling and storage

Precautions for safe handling	1	
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. 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	:	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 None.	<u>ì</u>
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>S</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
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Section 8. Exposure controls/personal protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): nitrile rubber ; 4 - 8 hours (breakthrough time): Viton®/butyl rubberBody 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 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	Skin protection	
Other skin protectionExample a special stateOther skin protectionAppropriate 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 protectionEased on the hazard and potential for exposure, select a respirator that meets the	Hand protection	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. Recommended : 1 - 4 hours (breakthrough time): nitrile rubber ; 4 - 8 hours (breakthrough time): Viton®/butyl
 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 	Body protection	being performed and the risks involved and should be approved by a specialist
	Other skin protection	selected based on the task being performed and the risks involved and should be
respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter	Respiratory protection	appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Off-white.
Odor	:	Characteristic.
Odor threshold	:	Not available.
рН	:	Not applicable.
Melting point/freezing point	:	Not available.
Boiling point, initial boiling point, and boiling range	:	Not available.

:

Flash point

	Closed cup				Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method	
Distillates (petroleum), hydro- treated light	>23	>73.4					
Orange, sweet, ext.	50	122					
octamethylcyclotetrasiloxane	56	132.8					
bis-[4-(2,3-epoxipropoxi)phenyl] propane				79	174.2		
decamethylcyclopentasiloxane				82.7	180.9	ASTM D 3828-87	
Reaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)]bis (oxirane) and 2,2'-[methylenebis (4,1-phenyleneoxymethylene)]bis (oxirane) and 2-({2-[4-(oxiran- 2-ylmethoxy)benzyl] phenoxy}methyl)oxirane	>93	>199.4	EU A.9				
2,6-di-tert-butyl-p-cresol				126.67	260		
1,4-bis(2,3 epoxypropoxy)butane	140	284	DIN EN ISO 2719				
aporation rate	: Not a	vailable.					
ammability	: Not a	vailable.					
ower and upper explosion	: Not a	vailable.					

Lower and upper explosion limit/flammability limit

Section 9. Physical and chemical properties

:

Vapor pressure

	V	apor Pressur	re at 20°C	\	apor pres	sure at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
1,4-bis(2,3 epoxypropoxy)butane	<18.75	<2.5	EU A.4			
Orange, sweet, ext.	1.4	0.19				
octamethylcyclotetrasiloxane	0.99	0.13				
Reaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)]bis (oxirane) and 2,2'-[methylenebis (4,1-phenyleneoxymethylene)]bis (oxirane) and 2-({2-[4-(oxiran- 2-ylmethoxy)benzyl] phenoxy}methyl)oxirane	0.62	0.083	EU A.4			
decamethylcyclopentasiloxane	0.25	0.033				
Distillates (petroleum), hydro- treated light	0.23 to 0.45	0.031 to 0.06				
2,6-di-tert-butyl-p-cresol	0.01	0.0013				
1,1'-(ethane-1,2-diyl)bis [pentabromobenzene]	0	0	OECD 104			
elative vapor density	: Not ava	ailable.				
elative density	: Not ava	ailable.				
ensity	: 1.6 g/cr	m³ [21°C (69.8	°F)]			
olubility(ies)	:					
Not available.						
olubility in water	: Not ava	ailable.				
artition coefficient: n- ctanol/water	: Not app	olicable.				
uto-ignition temperature	:					
Ingredient name		°C	°F	М	ethod	
Orange, sweet, ext.		235	455	EL	J A.15	
Distillates (petroleum), hydro- treate	ed light	>220	>428	ļ		
decamethylcyclopentasiloxane		372	701.6	AS	5TM E 659-78	
octamethylcyclotetrasiloxane		384 to 387	723.2 to 7	728.6 AS	5TM E 659	
ecomposition temperature	: Not ava	ailable.				
iscosity	: Not ava	ailable.				
ow time (ISO 2431)	: Not ava	ailable.				
article characteristics						
ledian particle size	: Not app	olicable.				
Section 10. Stabili			У			
eactivity	-		related to reactivi	ty available fo	or this produ	uct or its ingredie

Possibility of hazardous	: Under normal conditions of storage and use, hazardous reactions will not occur.
reactions	

Conditions to avoid : No specific data.

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Section 10. Stability and reactivity

Incompatible materials : No specific data.

Hazardous decomposition	: Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1,4-bis(2,3 epoxypropoxy) butane	LD50 Dermal	Rabbit	1130 mg/kg	-
	LD50 Oral	Rat	1134 mg/kg	-

Acute toxicity estimates

Route	
Oral	26688.35 mg/kg
Dermal	26594.22 mg/kg
Inhalation (vapors)	258.88 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Reaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'- [methylenebis (4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4- (oxiran-2-ylmethoxy)benzyl] phenoxy}methyl)oxirane		Rabbit	-	24 hours 500 uL	-
1,4-bis(2,3 epoxypropoxy) butane	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 10 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	IARC	NTP	ACGIH
bis-[4-(2,3-epoxipropoxi)phenyl]propane	3	-	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name Orange, sweet, ext.		Result ASPIRATION HAZARD - Category 1	
Potential acute health effect	<u>s</u>		

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, 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 effects 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 effects

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.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: 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)
WEICON TB-Flex F Resin	26688.4	26594.2	N/A	258.9	N/A
1,4-bis(2,3 epoxypropoxy)butane	1134	1130	N/A	11	N/A

Section 12. Ecological information

<u>Toxicity</u>

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Reaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'- [methylenebis (4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2-[4- (oxiran-2-ylmethoxy)benzyl] phenoxy}methyl)oxirane		-	low	
1,4-bis(2,3 epoxypropoxy) butane	-0.269	-	low	
Orange, sweet, ext.	2.78 to 4.88	1.502 to 2.597	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. Avoid dispersal of spilled material and
	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

	TDG Classification	DOT Classification	IMDG	ΙΑΤΑ	
UN number	UN3082	Not available.	UN3082	UN3082	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4- (2,3-epoxipropoxi) phenyl]propane, Reaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'- [methylenebis (4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2- [4-(oxiran-2-ylmethoxy) benzyl]phenoxy}methyl) oxirane)	Not available.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4- (2,3-epoxipropoxi) phenyl]propane, Reaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'- [methylenebis (4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2- [4-(oxiran-2-ylmethoxy) benzyl]phenoxy}methyl) oxirane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4- (2,3-epoxipropoxi) phenyl]propane, Reaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)] bis(oxirane) and 2,2'- [methylenebis (4,1-phenyleneoxymethylene)] bis(oxirane) and 2-({2- [4-(oxiran-2-ylmethoxy) benzyl]phenoxy}methyl) oxirane)	
Transport hazard class(es)		Not available.	9 1 1 1 1 1 1 1 1		
Packing group	III	-	Ш	Ш	
Environmental hazards	Yes.	No.	Yes.	Yes.	
Additional inform	ation				
TDG Classification	Goods Re Non-bulk	egulations: 2.43-2.45 (Cla	ving sections of the Trans ass 9), 2.7 (Marine polluta are not regulated as dam	nt mark).	
or ≤5 kg,		duct is not regulated as a dangerous good when transported in sizes of \leq 5 L provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 1.4 to 4.1.1.8.			
 IATA : This product is not regulated as a dangerous good when transported in sizes 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 precaution	upright ar		s: always transport in closersons transporting the pro- ersons transporting the pro- e.		

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

<u>Canadian lists</u>	
Canadian NPRI	: None of the components are listed.
CEPA Toxic substances	: None of the components are listed.
International regulations	
<u>Chemical Weapon Conven</u>	tion List Schedules I, II & III Chemicals
Not listed.	

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Section 15. Regulatory information

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: All components are listed or exempted.
Japan	 Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: All components are listed or exempted.
Turkey	: All components are listed or exempted.
United States	: Not determined.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

<u>History</u>	
Date of printing	: 11/24/2022
Date of issue/Date of revision	: 11/23/2022
Date of previous issue	: No previous validation
Version	: 1
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations 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) N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method

References

: Not available.

Date of issue/Date of revision

Section 16. Other information

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.