

45800TFX EPIC TFX SOFT RUSSELL CARDINAL

Version Number 1.7 Revision Date 11/27/2024 Page 1 of 14 Print Date 01/07/2025

# SAFETY DATA SHEET

#### 45800TFX EPIC TFX SOFT RUSSELL CARDINAL

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	:	45800TFX EPIC TFX SOFT RUSSELL CARDINAL Mixture Mixture FO20028887 solid
<u>Relevant identified uses of the subs</u> Product use	stance :	e or mixture and uses advised against Industrial applications.
Supplier's details	:	<b>AVIENT CORPORATION</b> 33587 Walker Road, Avon Lake, OH 44012
Emergency telephone number (with hours of operation)	:	1 (440) 930-1000 or 1 (844) 4AVIENT CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

# Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
GHS label elements		
Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.

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#### **Precautionary statements**

	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.
		Not available.

# Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	FO20028887

#### CAS number/other identifiers

Ingredient name	%	CAS number
Diphenyloxide-4,4'-disulfohydrazide	>= 3 - <= 5	80-51-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

## Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.
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Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated
Ingestion	:	clothing and shoes. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Most important symptoms/effects, a	acute a	nd delayed
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical a	ttentio	n 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.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal	:	May emit Hydrogen Chloride (HCl).



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decomposition products		Decomposition products may include the following materials: carbon dioxide	
		carbon monoxide	
		nitrogen oxides	
		sulfur oxides	
		halogenated compounds	
		metal oxide/oxides	
Special protective actions for fire-	:	Promptly isolate the scene by removing all persons from the vicinity	
fighters		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 For emergency responders	:	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. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containme	nt a	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage



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#### **Precautions for safe handling**

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). 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.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits
Diphenyloxide-4,4'-disulfohydrazide		None.
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker
Environmental exposure controls	:	exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to



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		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: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
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

#### Appearance

Physical state	:	solid [Paste.]
Color	:	RED
Odor	:	Faint odor.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not applicable.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not applicable.
(flammable) limits		Upper: Not applicable.
Vapor pressure		Not available.
Vapor density		Not applicable.
vapor ucinsity	•	Tiol applicable.
Relative density	:	Not available.



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Solubility Solubility in water	:	Not available. insoluble in water.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
•		Kinematic: Not applicable

#### Aerosol product

Heat of combustion	:	Not available.
Ignition distance	:	Not available.
Enclosed space ignition - Time	:	Not available.
equivalent		
Enclosed space ignition -	:	Not available.
Deflagration density		
Flame height	:	Not available.
Flame duration	:	Not available.

# Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Avoid contact with acetal homopolymers and acetyl homopolymers during processing.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity



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Product/ingredient name	Result	Species	Dose	Exposure
Benzenesulfonic acid, 4,4'-oxy				
	LD50 Oral	Rat	2,300 mg/kg	-
Conclusion/Summary	: Miz	xture.Not fully tested.		
Irritation/Corrosion				
Conclusion/Summary				
Skin		xture.Not fully tested.		
Eyes		xture.Not fully tested.		
Respiratory	: Mi	xture.Not fully tested.		
Sensitization				
Conclusion/Summary				
Skin		xture.Not fully tested.		
Respiratory	: Mi	xture.Not fully tested.		
Mutagenicity				
Conclusion/Summary	: Mi	xture.Not fully tested.		
<u>Carcinogenicity</u>				
Conclusion/Summary	: Mi	xture.Not fully tested.		
<u>Reproductive toxicity</u>				
Conclusion/Summary	: Mi	xture.Not fully tested.		
<u>Teratogenicity</u>				
Conclusion/Summary	: Mi	xture.Not fully tested.		
Specific target organ toxicity	y (single exposure	<u>e)</u>		
Not available.				
Specific target organ toxicity Not available.	y (repeated expos	<u>sure)</u>		
Aspiration hazard Not available.				
Information on the likely ro exposure	utes of : No	t available.		
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#### Potential acute health effects

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	:::::::::::::::::::::::::::::::::::::::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<u>Numerical measures of toxicity</u> <u>Acute toxicity estimates</u> N/A		
Other information	:	This mixture has not been evaluated as a whole for health effects.

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individual components which comprise the mixture.

# Section 12. Ecological information

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Toxicity
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Product/ingredient name	Result	Species	Exposure				
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Remarks - Acute - Aquatic invertebrates.:	Chemicals ar	e not readily available as they are	bound within the polymer matrix.				
Conclusion/Summary		emicals are not readily available a lymer matrix.	as they are bound within the				
<u>Persistence and degradability</u> Conclusion/Summary	: C	nemicals are not readily available lymer matrix.	as they are bound within the				
Conclusion/Summary		nemicals are not readily available lymer matrix.	as they are bound within the				

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Benzenesulfonic acid, 4,4'-oxybis-,	-	3.00	low
1,1'-dihydrazide			

#### Mobility in soil

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



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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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

# **Section 14. Transport information**

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

## Section 15. Regulatory information

U.S. Federal regulations	<ul> <li>United States - TSCA 12(b) - Chemical export notification: None of the components are listed.</li> <li>United States - TSCA 4(a) - Final Test Rules: Not listed</li> <li>United States - TSCA 4(a) - ITC Priority list: Not listed</li> <li>United States - TSCA 4(f) - Priority risk review: Not listed</li> <li>United States - TSCA 4(f) - Priority risk review: Not listed</li> <li>United States - TSCA 5(a)2 - Final significant new use rules: Not listed</li> <li>United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed</li> <li>United States - TSCA 5(e) - Substances consent order: Not listed</li> <li>United States - TSCA 6 - Final risk management: Not listed</li> <li>United States - TSCA 6 - Proposed risk management: Not listed</li> <li>United States - TSCA 8(a) - Chemical risk rules: Not listed</li> <li>United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined</li> </ul>
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		United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Diphenyloxide-4,4'-disulfohydrazide
		<b>United States - TSCA 8(c) - Significant adverse reaction (SAR):</b> Not listed
		United States - TSCA 8(d) - Health and safety studies: Not listed
		United States - TSCA 4(a) - Proposed test rules: Not listed
		United States - EPA Clean water act (CWA) section 307 - Priority
		pollutants: Listed Phenol
		Vinyl chloride monomer
		United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Listed
		United States - EPA Clean air act (CAA) section 112 - Accidental
		release prevention - Flammable substances: Not listed
		United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Toxic substances: Not listed
		<b>United States - Department of commerce - Precursor chemical:</b> Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Listed
Clean Air Act Section 602 Class I	:	Not listed
Substances	•	
Clean Air Act Section 602 Class II	:	Not listed
Substances		
DEA List I Chemicals (Precursor	:	Not listed
Chemicals)		
DEA List II Chemicals (Essential	:	Not listed

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

#### SARA 311/312

**Chemicals**)

Classification

: Not applicable.

#### **Composition/information on ingredients**

No products were found.

Name	%	Classification
Benzenesulfonic acid, 4,4'-	>= 3 - <= 5	COMBUSTIBLE DUSTS
oxybis-, 1,1'-dihydrazide		ACUTE TOXICITY - oral - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A

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	SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2

Not applicable.

State regulations		
Massachusetts	:	The following components are listed:
		Calcium carbonate
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Ethene, chloro-, homopolymer
		Calcium carbonate
		Diphenyloxide-4,4'-disulfohydrazide
		Paraffins, petroleum, normal C5-20
Pennsylvania	:	The following components are listed:
		Calcium carbonate
<u>California Prop. 65</u>		
This product does not require a Safe H	Iarbo	r warning under California Prop. 65
United States inventory (TSCA 8b)		All components are active or exempted.
	•	
Canada inventory	:	At least one component is not listed in DSL but all such components
		are listed in NDSL.
International regulations		
International regulations		
<u>Inventory list</u>		
	:	Not determined.
Inventory list	:	At least one component is not listed in DSL but all such components
<u>Inventory list</u> Australia Canada		At least one component is not listed in DSL but all such components are listed in NDSL.
<u>Inventory list</u> Australia Canada China		At least one component is not listed in DSL but all such components are listed in NDSL. All components are listed or exempted.
<u>Inventory list</u> Australia Canada China Eurasian Economic Union	::	At least one component is not listed in DSL but all such components are listed in NDSL. All components are listed or exempted. <b>Russian Federation inventory:</b> Not determined.
<u>Inventory list</u> Australia Canada China	:	<ul> <li>At least one component is not listed in DSL but all such components are listed in NDSL.</li> <li>All components are listed or exempted.</li> <li>Russian Federation inventory: Not determined.</li> <li>Japan inventory (CSCL): Not determined.</li> </ul>
<u>Inventory list</u> Australia Canada China Eurasian Economic Union Japan	::	<ul> <li>At least one component is not listed in DSL but all such components are listed in NDSL.</li> <li>All components are listed or exempted.</li> <li>Russian Federation inventory: Not determined.</li> <li>Japan inventory (CSCL): Not determined.</li> <li>Japan inventory (ISHL): Not determined.</li> </ul>
<u>Inventory list</u> Australia Canada China Eurasian Economic Union Japan New Zealand	::	<ul> <li>At least one component is not listed in DSL but all such components are listed in NDSL.</li> <li>All components are listed or exempted.</li> <li>Russian Federation inventory: Not determined.</li> <li>Japan inventory (CSCL): Not determined.</li> <li>Japan inventory (ISHL): Not determined.</li> <li>Not determined.</li> </ul>
<u>Inventory list</u> Australia Canada China Eurasian Economic Union Japan New Zealand Philippines	: : : : : : : : : : : : : : : : : : : :	<ul> <li>At least one component is not listed in DSL but all such components are listed in NDSL.</li> <li>All components are listed or exempted.</li> <li>Russian Federation inventory: Not determined.</li> <li>Japan inventory (CSCL): Not determined.</li> <li>Japan inventory (ISHL): Not determined.</li> <li>Not determined.</li> <li>Not determined.</li> <li>Not determined.</li> </ul>
<u>Inventory list</u> Australia Canada China Eurasian Economic Union Japan New Zealand Philippines Republic of Korea	: : : : : : : : : : : : : : : : : : : :	At least one component is not listed in DSL but all such components are listed in NDSL. All components are listed or exempted. <b>Russian Federation inventory:</b> Not determined. <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined. Not determined. Not determined. All components are listed or exempted.
Inventory list Australia Canada China Eurasian Economic Union Japan New Zealand Philippines Republic of Korea Taiwan		At least one component is not listed in DSL but all such components are listed in NDSL. All components are listed or exempted. <b>Russian Federation inventory:</b> Not determined. <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined. Not determined. Not determined. All components are listed or exempted. All components are listed or exempted.
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Inventory list Australia Canada China Eurasian Economic Union Japan New Zealand Philippines Republic of Korea Taiwan Thailand Turkey		At least one component is not listed in DSL but all such components are listed in NDSL. All components are listed or exempted. <b>Russian Federation inventory:</b> Not determined. <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined. Not determined. Not determined. All components are listed or exempted. All components are listed or exempted. Not determined. Not determined. Not determined.
Inventory list Australia Canada China Eurasian Economic Union Japan New Zealand Philippines Republic of Korea Taiwan Thailand		At least one component is not listed in DSL but all such components are listed in NDSL. All components are listed or exempted. <b>Russian Federation inventory:</b> Not determined. <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined. Not determined. Not determined. All components are listed or exempted. All components are listed or exempted. Not determined.

# Section 16. Other information



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

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

<u>Illstol y</u>		
Date of printing	:	01/07/2025
Date of issue/Date of revision	:	11/27/2024
Date of previous issue	:	11/19/2024
Version	:	1.7
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 = Intermediate 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
References	:	Not available.

#### 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. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.