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## SAFETY DATA SHEET

#### **BLUE**

Section 1. Identification		
GHS product identifier	:	BLUE
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10220195
Product type	:	liquid
Relevant identified uses of the subs	tonco	or mixture and uses advised against
Product use		Industrial applications. Plastics.
I fouuct use	:	industrial applications. Trastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE
Emergency telephone number (with hours of operation)	:	<b>CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).</b> 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 for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	:	SKIN CORROSION/IRRITATION - Category 2
GHS label elements		



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Hazard pictograms

Signal word Hazard statements Warning Causes skin irritation.

**Precautionary statements** 

General Prevention Response	:	Not applicable. Wear protective gloves. Wash hands thoroughly after handling. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

### Section 3. Composition/information on ingredients

:

:

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Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10220195

CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	30 - 60	13463-67-7
Miscellaneous Compounds Distillates, petroleum, hydrotreated middle	10 - 30	Not available.

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.



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## 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. 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.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 Inhalation	<ul> <li>Causes serious eye irritation.</li> <li>Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> </ul>
Skin contact Ingestion	<ul><li>Causes skin irritation.</li><li>Irritating to mouth, throat and stomach.</li></ul>



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#### **Over-exposure signs/symptoms**

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 medical	attentio	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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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 $CO_2$ . None known.
Specific hazards arising from the chemical Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire- fighters Special protective equipment for	:	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. Fire-fighters should wear appropriate protective equipment and self-
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#### fire-fighters

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

action shall be taken involving any personal risk or without able training. Evacuate surrounding areas. Keep unnecessary and rotected personnel from entering. Do not touch or walk through led material. Avoid breathing vapor or mist. Provide adequate illation. Wear appropriate respirator when ventilation is lequate. Put on appropriate personal protective equipment.
becialised clothing is required to deal with the spillage, take note of information in Section 8 on suitable and unsuitable materials. See the information in "For non-emergency personnel".
id dispersal of spilled material and runoff and contact with soil, erways, drains and sewers. Inform the relevant authorities if the luct has caused environmental pollution (sewers, waterways, soil ir).
eaning up
b leak if without risk. Move containers from spill area. Dilute with er and mop up if water-soluble. Alternatively, or if water- luble, absorb with an inert dry material and place in an appropriate te disposal container. Dispose of via a licensed waste disposal tractor.
b) leak if without risk. Move containers from spill area. Approach ase from upwind. Prevent entry into sewers, water courses, ements or confined areas. Wash spillages into an effluent treatment it or proceed as follows. Contain and collect spillage with non- bustible, absorbent material e.g. sand, earth, vermiculite or comaceous earth and place in container for disposal according to l regulations (see Section 13). Dispose of via a licensed waste osal contractor. Contaminated absorbent material may pose the e hazard as the spilled product. Note: see Section 1 for emergency

## Section 7. Handling and storage

#### Precautions for safe handling

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Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do
	not ingest. Avoid contact with eyes, skin and clothing. 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.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

### **Occupational exposure limits**

Ingredient name		Exposure limits
Titanium dioxide		OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 10 mg/m3
Appropriate engineering controls Environmental exposure controls	:	Good general ventilation should be sufficient to control worker 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.

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Individual protection measures

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#### **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. Safety eyewear complying with an approved standard should be used **Eye/face protection** 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. **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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based **Body protection** on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures Other skin protection should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. **Respiratory protection** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

#### Appearance

Physical state	:	liquid [liquid]
Color	:	BLUE
Odor	:	Not available.

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Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: 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	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

#### **Information on toxicological effects**



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#### Acute toxicity

Titanium dioxide Miscellaneous Compounds Dis Conclusion/Summary Irritation/Corrosion Conclusion/Summary Skin Eyes Boomingtony	: N : N : N	I Ra um, hydro Iixture.N Iixture.N Iixture.N	t - Male bbit otreated middle ot fully tested. ot fully tested. ot fully tested. ot fully tested.	6.82 Mg/l > 5,000 mg/kg	4 h
Conclusion/Summary Irritation/Corrosion Conclusion/Summary Skin Eyes	LD50 Derma stillates, petrole : N : N : N	I Ra um, hydro Iixture.N Iixture.N Iixture.N	bbit otreated middle ot fully tested. ot fully tested. ot fully tested.		
Conclusion/Summary Irritation/Corrosion Conclusion/Summary Skin Eyes	stillates, petrole : M : M : M	um, hydro fixture.N fixture.N fixture.N	ot fully tested. ot fully tested. ot fully tested. ot fully tested.		-
Conclusion/Summary Irritation/Corrosion Conclusion/Summary Skin Eyes	: N : N : N	lixture.N lixture.N lixture.N	ot fully tested. ot fully tested. ot fully tested.		
<u>Irritation/Corrosion</u> Conclusion/Summary Skin Eyes	: N : N	Iixture.N Iixture.N	ot fully tested. ot fully tested.		
Conclusion/Summary Skin Eyes	: N	lixture.N	ot fully tested.		
Skin Eyes	: N	lixture.N	ot fully tested.		
Eyes	: N	lixture.N	ot fully tested.		
Decominations	: N	lixture.N	ot fully tested.		
Respiratory			2		
Sensitization					
<b>Conclusion/Summary</b>					
Skin			ot fully tested.		
Respiratory	: N	lixture.N	ot fully tested.		
<u>Mutagenicity</u>					
Conclusion/Summary	: N	/ixture.N	ot fully tested.		
Carcinogenicity					
Conclusion/Summary	: N	/ixture.N	ot fully tested.		
Classification					
Product/ingredient name	OSHA	IARC	NTP		
Titanium dioxide		2B			
Reproductive toxicity Conclusion/Summary	: N		ot fully tested.		
<b>Teratogenicity</b>					
Conclusion/Summary	: N	lixture.N	ot fully tested.		
<u>Specific target organ toxicity (single exposure)</u> Not available.					



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### Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard			
Product/ingredient name			Result
Miscellaneous Compounds Distillates, hydrotreated middle	petr	oleum,	ASPIRATION HAZARD - Category 1
Information on the likely routes of exposure	:	Not available	2.
Potential acute health effects			
Eye contact	:		us eye irritation.
Inhalation	:	Serious effec	decomposition products may cause a health hazard. ets may be delayed following exposure.
Skin contact	:	Causes skin i	
Ingestion	:	Irritating to r	nouth, throat and stomach.
Symptoms related to the physical, ch	<u>iemi</u>	cal and toxico	logical characteristics
Eye contact	:	Adverse sym pain or irritat watering redness	ptoms may include the following: tion
Inhalation	:	No specific d	lata.
Skin contact	-	-	ptoms may include the following:
	•	irritation redness	promo mul morado dio rono mugi
Ingestion	:	No specific d	lata.
Delayed and immediate effects and a	also (	chronic effects	s from short and long term exposure
<u>Short term exposure</u>			
Potential immediate effects	:	Not available	2
Potential delayed effects	:	Not available	2.
Long term exposure			
Potential immediate effects	:	Not available	2.
Potential delayed effects	:	Not available	
Potential chronic health effects			
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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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (dusts and mists)	8.505 mg/l

## Section 12. Ecological information

**Toxicity** 

Product/ingredient name	Result	Species	Exposure
Titanium dioxide			
	Acute LC50 > 1,000,000 µg/l Marine water	Fish - Mummichog	96 h
	Acute LC50 > 1,000 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 13 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 35.306 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h

**Conclusion/Summary** 

: Not available.

#### **Persistence and degradability**

Conclusion/Summary

: Not available.



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#### **Bioaccumulative potential**

potential			
Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		352.00	low

#### Mobility in soil

Soil/water partition coefficient	:	Not available.
(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 runoff and contact with soil, waterways, drains
		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 Classification	:	Not regulated for transportation.
ICAO/IATA	:	Consult mode specific transport rules
IMO/IMDG (maritime)	:	Consult mode specific transport rules

## Section 15. Regulatory information

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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(a) - Proposed test rules: Not listed</li> <li>United States - TSCA 4(a) - Proposed test rules: 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(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) - Dioxin/Furane precusor: Not listed</li> <li>United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined</li> <li>United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed</li> <li>United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed</li> <li>United States - TSCA 8(d) - Health and safety studies: Not listed</li> <li>United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Phthalocyanine blue</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> </ul>
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed



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

not applicable

#### SARA 311/312

Classification

: Immediate (acute) health hazard

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

Name	%	Classification
Titanium dioxide	30 - 60	СН
Miscellaneous Compounds	10 - 30	AH
Distillates, petroleum,		
hydrotreated middle		

#### <u>SARA 313</u>

Not applicable.

State regulations		
Massachusetts	:	The following components are listed: Titanium dioxide
New York	:	None of the components are listed.
New Jersey	:	The following components are listed:
		Titanium dioxide Phthalocyanine blue
Pennsylvania	:	The following components are listed:
		Titanium dioxide
		Phthalocyanine blue
		Aluminum hydroxide
California Prop. 65 WARNING: This product contains a chemical known to the State of California to cause cancer.		
United States inventory (TSCA 8b)	:	All components are listed or exempted.
Canada inventory	:	All components are listed or exempted.
International regulations		
International lists	:	<ul><li>Australia inventory (AICS): All components are listed or exempted.</li><li>Taiwan inventory (CSNN): Not determined.</li><li>Malaysia Inventory (EHS Register): Not determined.</li></ul>
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EINECS: All components are listed or exempted.
Japan inventory: Not determined.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): All components are listed or exempted.

Chemical Weapons Convention
List Schedule I Chemicals
Chemical Weapons Convention
List Schedule II Chemicals
Chemical Weapons Convention
List Schedule III Chemicals

Not listed

:

Not listed

: Not listed

### **Section 16. Other information**

#### History

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:	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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
:	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.