XSY AQUARIUS SOFT DENSITY BASE

Version Number 1.4 Revision Date 07/26/2023 **ÀVIENT**™

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SAFETY DATA SHEET

XSY AQUARIUS SOFT DENSITY BASE

Section 1. Identification	n	
GHS product identifier	:	XSY AQUARIUS SOFT DENSITY BASE
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	FO20044684
Product type	:	liquid
Relevant identified uses of the subs	tance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	AVIENT CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (844) 4AVIENT
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or
(with hours of operation)		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	:	FO20044684

CAS number/other identifiers

Ingredient name	%	CAS number
Diethylene glycol	>= 3 - <= 4.5	111-46-6
Urea	>= 3 - <= 3.5	57-13-6
1,2,3-Propanetriol	>= 1 - <= 1.8	56-81-5

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.





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Inhalation Skin contact	:	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. Flush contaminated skin with plenty of water. Remove contaminated	
		clothing and shoes. Get medical attention if symptoms occur.	
Ingestion	:	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,	acute a	and 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 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.	
See toxicological information (Sec	tion 11)	

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : In case of fire, use water spray (fog), foam, dry chemical or CO₂.

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Unsuitable extinguishing media	:	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 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. 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 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. 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	
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container for disposal according to local regulations (see Section 13). 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

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
Diethylene glycol	OARS WEEL (1999-01-01) TWA 10 mg/m3
Urea	OARS WEEL (1999-01-01) TWA 10 mg/m3
1,2,3-Propanetriol	OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust TWA 5 mg/m3 Form: Respirable fraction OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust

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		TWA 5 mg/m3 Form: Respirable fraction
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.
Individual protection measures		
Hygiene measures Eye/face protection	:	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 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: 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

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Physical state Color	:	liquid [liquid] NO PIGMENT
Odor	:	Not available.
Odor threshold	•	Not available.
	•	Not available.
pH Molting point	•	Not available.
Melting point 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 applicable.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
·		Kinematic: Not available.
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). 		



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Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid Incompatible materials	:	Keep away from extreme heat and oxidizing agents. 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

Information on toxicological effects

Acute toxicity				
Product/ingredient name	Result	Species	Dose	Exposure
Ethanol, 2,2'-oxybis-				
	LD50 Oral	Rat	12,000 mg/kg	-
	LD50 Dermal	Rabbit	11,890 mg/kg	-
Urea				
	LD50 Oral	Rat	8,471 mg/kg	-
1,2,3-Propanetriol				
	LD50 Oral	Rat	12,600 mg/kg	-

Conclusion/Summary

: Mixture.Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethanol, 2,2'-oxybis-	Eyes - Mild irritant	Rabbit	-		-
	Skin - Mild irritant	Human	-	72 hrs	-
	Skin - Mild irritant	Rabbit	-		-
Urea	Skin - Moderate irritant	Human	-	24 hrs	-
	Skin - Mild irritant	Human	-	72 hrs	-
1,2,3-Propanetriol	Skin - Mild irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-	24 hrs	-

Conclusion/Summary Skin Eyes

Mixture.Not fully tested.Mixture.Not fully tested.Mixture.Not fully tested.

Sensitization

Respiratory

Conclusion/Summary

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Skin Respiratory	:	Mixture.Not fully tested. Mixture.Not fully tested.
Mutagenicity		
Conclusion/Summary	:	Mixture.Not fully tested.
Carcinogenicity		
Conclusion/Summary	:	Mixture.Not fully tested.
<u>Reproductive toxicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
<u>Teratogenicity</u>		
Conclusion/Summary	:	Mixture.Not fully tested.
Specific target organ toxicity (single Not available.	exp	<u>osure)</u>
Specific target organ toxicity (repea Not available.	ted e	exposure)
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, cl	hemi	cal 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

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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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
XSY AQUARIUS SOFT DENSITY BASE	239521.2 mg/kg	N/A	N/A	N/A	N/A
Ethanol, 2,2'-oxybis-	12000 mg/kg	11890 mg/kg	N/A	N/A	N/A
Urea	8471 mg/kg	N/A	N/A	N/A	N/A
1,2,3-Propanetriol	12600 mg/kg	N/A	N/A	N/A	N/A

Other 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.

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Ethanol, 2,2'-oxybis-			
	Acute LC50 75.2 Mg/l Fresh	Fish - Pimephales promelas	96 h
	water		
Urea			
	Acute LC50 0.000023 Mg/l	Fish - Oreochromis	96 h
	Fresh water	mossambicus	
	Acute EC50 6,573.1 Mg/l Fresh	Crustaceans - Ceriodaphnia	48 h
	water	dubia	
	Acute EC50 3,910 Mg/l Fresh	Daphnia - Daphnia magna	48 h
	water		
	Chronic NOEC 2,000 Mg/l Fresh	Fish - Heteropneustes fossilis	30 d
	water		

Conclusion/Summary

: Not available.

Persistence and degradability

Conclusion/Summary

Not available.

:

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ethanol, 2,2'-oxybis-	-1.98	100.00	low
Urea	-1.73	-	low
1,2,3-Propanetriol	-1.76	-	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

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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. 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	:	Consult mode specific transport rules
International Water IMO/IMDG	:	Consult mode specific transport rules

Section 15. Regulatory information

 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed
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		United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Listed Poly(dimethylsiloxane) Decamethylcyclopentasiloxane Octamethylcyclotetrasiloxane Dodecamethylcyclohexasiloxane		
		United States - TSCA 8(c) - Significant adverse reaction (SAR): Listed Hexamethylene diisocyanate		
		United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Hexamethylene diisocyanate Acrylonitrile		
		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 United States - Department of commerce - Precursor chemical: Not listed		
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	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		
US. EPA CERCLA Hazardous Substances (40 CFR 302)				
not applicable				

SARA 311/312

Classification

Not applicable.

:

Composition/information on ingredients

No products were found.



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Name	%	Classification
Ethanol, 2,2'-oxybis-	>= 3 - <= 4.5	EYE IRRITATION - Category 2B
Urea	>= 3 - <= 3.5	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
1,2,3-Propanetriol	>= 1 - <= 1.8	EYE IRRITATION - Category 2B

Not applicable.

State regulations		
Massachusetts	:	The following components are listed:
		1,2,3-Propanetriol
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: 1,2,3-Propanetriol
Pennsylvania	:	The following components are listed: Diethylene glycol
		1,2,3-Propanetriol
<u>California Prop. 65</u>		
This product does not require a Safe		
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.
<u>International regulations</u> Inventory list		
inventory list		
Australia	:	Not determined.
	:	Not determined. At least one component is not listed in DSL but all such components are listed in NDSL.
Australia		At least one component is not listed in DSL but all such components
Australia Canada		At least one component is not listed in DSL but all such components are listed in NDSL.
Australia Canada China	:	At least one component is not listed in DSL but all such components are listed in NDSL. Not determined. Russian Federation inventory: Not determined. Japan inventory (CSCL): Not determined.
Australia Canada China Eurasian Economic Union Japan	::	 At least one component is not listed in DSL but all such components are listed in NDSL. Not determined. Russian Federation inventory: Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
Australia Canada China Eurasian Economic Union Japan New Zealand	:	 At least one component is not listed in DSL but all such components are listed in NDSL. Not determined. Russian Federation inventory: Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Not determined.
Australia Canada China Eurasian Economic Union Japan New Zealand Philippines	: : : : : : : : : : : : : : : : : : : :	 At least one component is not listed in DSL but all such components are listed in NDSL. Not determined. Russian Federation inventory: Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Not determined. Not determined. Not determined.
Australia Canada China Eurasian Economic Union Japan New Zealand	: : : : : : : : : : : : : : : : : : : :	At least one component is not listed in DSL but all such components are listed in NDSL. Not determined. Russian Federation inventory: Not determined. Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : Not determined. Not determined. Not determined. Not determined.
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. Not determined. Russian Federation inventory: Not determined. Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. Not determined. Not determined. Not determined.

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United States Viet Nam

- All components are active or exempted.
- Not determined.

Section 16. Other information

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>HIStory</u>		
Date of printing	:	07/27/2023
Date of issue/Date of revision	:	07/26/2023
Date of previous issue	:	01/04/2023
Version	:	1.4
Key to abbreviations	:	ATE = Acute Toxicity Estimate
U C		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.

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