

SAFETY DATA SHEET

Western-Ready™ MES SDS-Page Running Buffer

Section 1. Identification

GHS product identifier	: Western-Ready™ MES SDS-Page Running Buffer
Product code	: Not available.
Other means of identification	: Not available.
Product type	: Liquid.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Research.
Area of application	: Industrial applications.
Supplier/Manufacturer	: BioLegend Inc. 8999 BioLegend Way San Diego, CA 92121 – USA Tel: +1-858-455-9588 (7:00AM – 5:00PM PT, M-F)
e-mail address of person responsible for this SDS	: cs@biolegend.com
Emergency telephone number (with hours of operation)	: +1-858-455-9588 (7:00AM – 5:00PM PT, M-F)

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: F315SKIN IRRITATION - Category 2H319EYE IRRITATION - Category 2A
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: ⊮ 315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statement	<u>2</u>
Prevention	 ₽280 - Wear eye or face protection. P264 - Wash thoroughly after handling.
Response	 P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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.
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Section 2. Hazards identification

Storage

: Not applicable.

Disposal

: Not applicable.

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

Ingredient name	Other names	%	CAS number
Morpholineethanesulfonic acid, monohydrate free acid	-	≤10	145224-94-8
trometamol	-	≤7	77-86-1

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 and hence require reporting in this section.

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	: Causes serious eye irritation.					
Inhalation	: 📈 known significant effects or critic	al hazards.				
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United States

Section 4. First aid measures

Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. 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 mediaSuitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.Unsuitable extinguishing media: Do not use water jet.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 nitrogen oxides sulfur oxidesSpecial 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.		
media Unsuitable extinguishing media : Do not use water jet. 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 nitrogen oxides sulfur oxides Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable	Extinguishing media	
media Specific hazards arising from the chemical Hazardous thermal decomposition products image: ima		: Use an extinguishing agent suitable for the surrounding fire.
from the chemical Hazardous thermal Hazardous thermal : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides Special protective actions : 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		: Do not use water jet.
decomposition products carbon dioxide carbon monoxide nitrogen oxides sulfur oxides Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable	· · · · · · · · · · · · · · · · · · ·	: In a fire or if heated, a pressure increase will occur and the container may burst.
for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable		carbon dioxide carbon monoxide nitrogen oxides
		there is a fire. No action shall be taken involving any personal risk or without suitable
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breath apparatus (SCBA) with a full face-piece operated in positive pressure mode.		: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

Personal precautions, protect	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".			
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. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.			

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Fut 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits
Morpholineethanesulfonio trometamol	c acid, monohydrate free acid	None. None.
Appropriate engineering controls	: Sood general ventilation sho contaminants.	ould be sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the require cases, fume scrubbers, filte	or work process equipment should be checked to ensure ements of environmental protection legislation. In some rs or engineering modifications to the process equipment emissions to acceptable levels.
Individual protection meas	<u>ures</u>	
Hygiene measures	eating, smoking and using t Appropriate techniques sho	face thoroughly after handling chemical products, before he lavatory and at the end of the working period. uld be used to remove potentially contaminated clothing. g before reusing. Ensure that eyewash stations and safety orkstation location.
Eye/face protection	assessment indicates this is gases or dusts. If contact is	with an approved standard should be used when a risk s necessary to avoid exposure to liquid splashes, mists, s possible, the following protection should be worn, unless higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	worn at all times when hand necessary. Considering the during use that the gloves a noted that the time to break glove manufacturers. In the	ous gloves complying with an approved standard should be lling chemical products if a risk assessment indicates this is e parameters specified by the glove manufacturer, check re still retaining their protective properties. It should be through for any glove material may be different for different e case of mixtures, consisting of several substances, the s cannot be accurately estimated.
Body protection		ent for the body should be selected based on the task being olved and should be approved by a specialist before
Other skin protection		ny additional skin protection measures should be selected formed and the risks involved and should be approved by a his product.
Respiratory protection	appropriate standard or cert	otential for exposure, select a respirator that meets the tification. Respirators must be used according to a am to ensure proper fitting, training, and other important

Section 9. Physical and chemical properties

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рН	: Not available.			
Odor threshold	: Not available.			
Odor	: Not available.			
Color	: Clear.			
Physical state	: Liquid.			
Appearance				

Section 9. Physical and chemical properties

-		
Melting point	1	Not available.
Boiling point	1	Not available.
Flash point	4	Not available.
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not applicable.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	4	Not available.
Vapor density	4	Not available.
Relative density	1	Not available.
Density	1	Not available.
Solubility	1	Not available.
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
SADT	1	Not available.
Viscosity	1	Not available.
Flow time (ISO 2431)	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
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
trometamol	LD50 Oral	Rat	5900 mg/kg	-

Irritation/Corrosion

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Section 11. Toxicological information

_	Result	Species	Score	Exposure	Observation
trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	-	25 % 500 mg	-
<u>Sensitization</u>					
Not available.					
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity	. Not such to be				
Conclusion/Summary	: Not available.				
Specific target organ toxic	<u>city (single exposure)</u>				
Name		Category	Rout expo		Target organs
Morpholineethanesulfonic	c acid, monohydrate free acid	Category 3	-		Respiratory tract
trometamol		Category 3	-		rritation Respiratory tract rritation
Specific target organ toxic	city (repeated exposure)				
Specific target organ toxic	<u>city (repeated exposure)</u>				
Not available.	<u>city (repeated exposure)</u>			·	
Not available.	city (repeated exposure)				
Not available.	<u>city (repeated exposure)</u>				
Not available.	city (repeated exposure) : Routes of entry anticipate	ed: Oral, Dermal,	Inhalation.		
Not available. Aspiration hazard Not available. Not available.	: Routes of entry anticipate	ed: Oral, Dermal,	Inhalation.		
Not available. Aspiration hazard Not available. formation on the likely outes of exposure	: Routes of entry anticipate		Inhalation.		
Not available. Aspiration hazard Not available. nformation on the likely outes of exposure rotential acute health effect	: Routes of entry anticipate	tion.			
Not available. Aspiration hazard Not available. nformation on the likely outes of exposure otential acute health effect Eye contact	: Routes of entry anticipate ts : Causes serious eye irritat	tion.			
Not available. Aspiration hazard Not available. nformation on the likely outes of exposure otential acute health effect Eye contact Inhalation	: Routes of entry anticipate ts : Causes serious eye irritat : N o known significant effe	tion. ects or critical haze	ards.		
Not available. Aspiration hazard Not available. nformation on the likely outes of exposure otential acute health effect Eye contact Inhalation Skin contact	 : Routes of entry anticipate : Causes serious eye irritat : No known significant effe : Causes skin irritation. 	tion. ects or critical haze	ards.		
Not available. Aspiration hazard Not available. nformation on the likely outes of exposure otential acute health effect Eye contact Inhalation Skin contact Ingestion	 : Routes of entry anticipate : Causes serious eye irritat : No known significant effe : Causes skin irritation. 	tion. ects or critical haze ects or critical haze	ards. ards.		
Not available. Aspiration hazard Not available. nformation on the likely outes of exposure otential acute health effect Eye contact Inhalation Skin contact Ingestion	 Routes of entry anticipate Causes serious eye irritat No known significant effe Causes skin irritation. No known significant effe 	tion. ects or critical haze ects or critical haze ogical character	ards. ards. i <mark>stics</mark>		
Not available. Aspiration hazard Not available. formation on the likely outes of exposure otential acute health effect Eye contact Inhalation Skin contact Ingestion Symptoms related to the play	 Routes of entry anticipate Causes serious eye irritat No known significant effe Causes skin irritation. No known significant effe No known significant effe Adverse symptoms may i pain or irritation watering 	tion. ects or critical haze ects or critical haze ogical character	ards. ards. i <mark>stics</mark>		
Not available. Aspiration hazard Not available. nformation on the likely outes of exposure otential acute health effect Eye contact Inhalation Skin contact Ingestion symptoms related to the pl Eye contact	 Routes of entry anticipate Causes serious eye irritat No known significant effe Causes skin irritation. No known significant effe No known significant effe Adverse symptoms may i pain or irritation watering redness 	tion. ects or critical haza ects or critical haza ogical character include the follow	ards. ards. <u>istics</u> ing:		

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Section 11. Toxicological information

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
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

Product/ingredient name		Dermal (mg/kg)		(vapors)	Inhalation (dusts and mists) (mg/ I)
Fometamol	5900	N/A	N/A	N/A	N/A

Section 12. Ecological information

Т	oxi	С	ity	
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Product/ingredient name	Result	Species	Exposure
Morpholineethanesulfonic acid, monohydrate free acid	Acute EC50 >108 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >108 mg/l Fresh water	Daphnia - Daphni magna	48 hours
	Acute LC50 >108 mg/l Fresh water	Fish - Danio rerio	96 hours
	Acute NOEC 108 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute NOEC 108 mg/l Fresh water Acute NOEC 108 mg/l Fresh water	Daphnia - Daphnia magna Fish - Danio rerio	48 hours 96 hours

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
trometamol	-2.31	-	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 runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

Special precautions for user : **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

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Section 15. Regulatory information

U.S. Federal regulations :	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are active or exempted. Clean Water Act (CWA) 311: edetic acid				
Clean Air Act Section 112 : (b) Hazardous Air Pollutants (HAPs)					
Clean Air Act Section 602 : Class I Substances	2 : 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				
SARA 302/304					
Composition/information on	ingredients				
No products were found.					
SARA 304 RQ :	Not applicat	he			
SARA 311/312	not applicat				
Classification :		TION - Category 2 TION - Category 2A			
Composition/information on	ingredients	0,			
Name	%	Classification	1		
Morpholineethanesulfonic ac monohydrate free acid trometamol	id, ≤10 ≤7	EYE IRRITATI SPECIFIC TAF (Respiratory tra SKIN IRRITAT EYE IRRITATI SPECIFIC TAF	act irritation) - Cate ION - Category 2 ON - Category 2A	KICITY (SINGLE EXPOSUR	,
SARA 313				<u>gory o</u>	
Not applicable.					
State regulations					
	None of the	components are listed.			
New York :	None of the	components are listed.			
New Jersey :	None of the	components are listed.			
Pennsylvania :	None of the	components are listed.			
California Prop. 65 This product does not requ	ire a Safe Ha	arbor warning under Calife	ornia Prop. 65.		
International regulations					
Chemical Weapon Convention	List Schedu	ules I, II & III Chemicals			
Not listed.					
Montreal Protocol Not listed.					
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Section 15. Regulatory information

Stockholm Convention on Persistent Organic Pollutants Not listed.

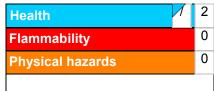
Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

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



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.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
	Calculation method Calculation method

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Key to abbreviations	 ATE = Acute Toxicity Estimate AMP = Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
Prepared by	: Sphera Solutions
Version	: 2
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HISTORY	

History

Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
UN = United Nations
HCS (U.S.A.)- Hazard Communication Standard
International transport regulations

References

✓ 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 above-named 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.