

SAFETY DATA SHEET

Matrix A-F

Section 1. Identification

GHS product identifier	: Matrix A-F
Product code	: Not available.
Other means of identification	: Not available.
Product type	: Solid.
Relevant identified uses of t	he 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 materia (29 CFR 19	al is considered hazardo 10.1200).	us by the OSHA Haza	ard Communicatior	n Standard
Classification of the substance or mixture	: H312 H332		Y (dermal) - Categor Y (inhalation) - Categ		
GHS label elements					
Hazard pictograms					
Signal word	: Warning				
Hazard statements	: H312 + H33	32 - Harmful in contact v	vith skin or if inhaled.		
Precautionary statements					
Prevention	P271 - Use	r protective gloves and only outdoors or in a we d breathing dust.			
Response	breathing.(P362 + P36 P302 + P31	0, P312 - IF INHALED: Call a POISON CENTEI 4 - Take off contaminat 2, P352 - IF ON SKIN: (olenty of water.	R or doctor if you feel ed clothing and wash	unwell. it before reuse.	
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Section 2. Hazards identification

Storage

: Not applicable.

Disposal

identification

: None known.

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.

Ingredient name	Other names	%	CAS number
sodium azide	-	≤1.3	26628-22-8

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 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 if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed Potential acute health effects

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Section 4. First aid measures

Section 4. 1 1151 a	וע וווכמסטו כס
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled.
Skin contact	: Harmful in contact with skin.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate med	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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: nitrogen oxides metal oxide/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 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, protect	tiv	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. 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 co	nta	<u>iinment and cleaning up</u>
Small spill	:	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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

Precautions for safe handling

Protective measures	 Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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	
sodium azide		ACGIH TLV (United States, 3/2020). C: 0.29 mg/m ³ , (as Sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) NIOSH REL (United States, 10/2016). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (NAN3)	
Appropriate engineering controls		ate ventilation. Use process enclosures, local exhaust ventilation or htrols to keep worker exposure to airborne contaminants below any tutory limits.	
Environmental exposure controls	comply with the requi fume scrubbers, filter	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
Individual protection measure	<u>ures</u>		
Hygiene measures	eating, smoking and techniques should be	ns and face thoroughly after handling chemical products, before using the lavatory and at the end of the working period. Appropriate used to remove potentially contaminated clothing. Wash g before reusing. Ensure that eyewash stations and safety showers station location.	
Eye/face protection	assessment indicates or dusts. If contact is	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	worn at all times whe necessary. Consider during use that the gl that the time to break manufacturers. In the	mpervious gloves complying with an approved standard should be n handling chemical products if a risk assessment indicates this is ing the parameters specified by the glove manufacturer, check oves are still retaining their protective properties. It should be noted through for any glove material may be different for different glove e case of mixtures, consisting of several substances, the protection nnot be accurately estimated.	
Body protection		quipment for the body should be selected based on the task being sks involved and should be approved by a specialist before handling	
Other skin protection		and any additional skin protection measures should be selected ing performed and the risks involved and should be approved by a dling this product.	
Respiratory protection	appropriate standard	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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state	:	Solid. [Cake.]
Color	:	White.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	:	Not applicable.
Evaporation rate	:	Not available.
Flammability	1	Not available.
Lower and upper explosion limit/flammability limit	:	Not applicable.
Vapor pressure	:	Not available.
Relative vapor density	1	Not applicable.
Relative density	1	Not available.
Density	:	Not available.
Solubility	1	Not available.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	1	Not available.
SADT	1	Not available.
Viscosity	1	Not applicable.
Flow time (ISO 2431)	:	Not available.
Particle characteristics		
Median particle size	1	Not available.
Additional information		
Physical/chemical properties comments	:	No additional information.
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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.

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Section 10. Stability and reactivity

Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials and metals.

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
sodium azide	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.054 to 0.52 mg/l	4 hours
	LD50 Dermal LD50 Dermal LD50 Oral	Rat	20 mg/kg 50 mg/kg 27 mg/kg	- - -

Irritation/Corrosion

Not available.

Sensitization

Not available.

<u>Mutagenicity</u>		
Conclusion/Summary	:	Not available.
Carcinogenicity		
Conclusion/Summary	:	Not available.
Reproductive toxicity		
Conclusion/Summary	:	Not available.
Teratogenicity		
Conclusion/Summary	:	Not available.
Specific target organ toxicity	(<u>single exposure)</u>
Not available.		

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: Routes of entry anticipated: Oral, De	ermal, Inhalation.		
Potential acute health effect Eye contact	ts : No known significant effects or critic	al hazards.		
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Section 11. Toxicological information

Inhalation	: Harmful if inhaled.
Skin contact	: Harmful in contact with skin.
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

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

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
	2036.4	1508.4	N/A	N/A	4.1
	27	20	N/A	N/A	0.054

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water Acute LC50 0.68 mg/l Fresh water Chronic NOEC 5600 μg/l Marine water	Daphnia - Daphnia pulex - Larvae Fish - Lepomis macrochirus Algae - Macrocystis pyrifera	48 hours 96 hours 96 hours

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Section 12. Ecological information

Conclusion/Summary

: Not available.

Other adverse effects	: No known significant effects or critical hazards.
Mobility in soil Soil/water partition coefficient (Koc)	: Not available.
Bioaccumulative potentia Not available.	<u>l</u>
Not available.	

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.

United States - RCRA Acute hazardous waste "P" List

Ingredient	CAS #		Reference number
Sodium azide	26628-22-8	Listed	P105

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

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Section 14. Transport 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

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): Not determined.
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

SARA 302/304

Composition/information on ingredients

			SARA 302 T	PQ	SARA 304 R	RQ.
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
sodium azide	≤1.3	Yes.	500	-	1000	-

SARA 304 RQ

: 75188 lbs / 34135.3 kg

SARA 311/312

Classification

: ACUTE TOXICITY (dermal) - Category 4

ACUTE TOXICITY (inhalation) - Category 4

Composition/information on ingredients

Name	%	Classification
sodium azide	≤1.3	ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (dermal) - Category 1 ACUTE TOXICITY (inhalation) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

SARA 313

	Product name	CAS number	%	
Form R - Reporting requirements	sodium azide	26628-22-8	≤1.3	
Supplier notification	sodium azide	26628-22-8	≤1.3	

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Section 15. Regulatory information

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: SODIUM AZIDE
New York	: The following components are listed: Sodium azide
New Jersey	: The following components are listed: SODIUM AZIDE
Pennsylvania	: The following components are listed: SODIUM AZIDE
California Prop. 65	

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

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

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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		
ACUTE TOXICITY (dermal) - 0 ACUTE TOXICITY (inhalation)				Calculation method Calculation method	
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Section 16. Other information

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era Solutions
 a Acute Toxicity Estimate a Acceptable maximum peak above the acceptable ceiling concentration for an shift a Bioconcentration Factor b a Globally Harmonized System of Classification and Labelling of Chemicals c a International Air Transport Association a Intermediate Bulk Container G a International Maritime Dangerous Goods Pow = logarithm of the octanol/water partition coefficient RPOL = International Convention for the Prevention of Pollution From Ships, 1973 as lified by the Protocol of 1978. ("Marpol" = marine pollution) a Not available United Nations
S (U.S.A.)- Hazard Communication Standard national transport regulations

V 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.



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 Revision date: 05/07/2015 Version: 1.0

Date of issue: 05/07/2015

	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	: Pure & Conjugated Antibodies, Recombinant Proteins, Avidin, and Streptavidin
Product details	 Purified monoclonal and polyclonal antibodies of mouse, hamster, goat, donkey or rabbit origin; and Antibody and Protein conjugates to the following molecules:
	Agarose (e.g. anti-DYKDDDDL tag (L5) affinity gel)
	Alkaline phosphate (AKP)
	 Allophycocyanine (APC) and its tandem dyes APC/Cy5.5 and APC/Cy7
	Biotin
	Fluorescein isothyocyanante (FITC)
	 Phycoerythrin (R-PE) and its tandem dyes PE/Cy5, PE/Cy5.5, PE/Cy7 and
	PE/ Dazzle™ 594
	 Alexa dyes including Alexa Fluor® 488, Alexa Fluor® 594, Alexa Fluor® 647 and Alexa Fluor® 700
	 Pacific Blue™ dye
	 Dylight[™] dyes, including DyLight[™] 594 and DyLight[™] 649
	Peridinin chlorophyll protein (PerCP) and its tandem including PerCP/Cy5.5
	 Brilliant Violet[™] fluorophores including BV421[™], BV510[™], BV570[™], BV605[™], BV650[™], BV711[™] and BV785[™]
Product details	 All recombinant proteins (including Annexin V) with the <i>exclusion</i> of the following catalog numbers: 577302, 577304, 577306, 577308, 580202, 580204, 580206, 580208, 580702, 580704, 580706, 583301, 585802, 592002, 592004, 592006, 592008, 842501, 842601, 842701, 842801, 842901, 843001, 843101, 843201, 843401, 843501, 843601, 843701, 843801, 843901, 844001, 931301
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Use of the substance/mixture	: Research use only
1.3. Details of the supplier of t	he safety data sheet
BioLegend Inc. 9727 Pacific Heights Blvd. San Diego, CA 92121 – USA T +1-858-455-9588	
1.4. Emergency telephone nun	nber
Emergency number	: +1-858-455-9588 (7:00AM – 5:00PM PT, M-F)
SECTION 2: Hazards identified	cation
2.1. Classification of the subst	
GHS-US classification	
Not classified.	
2.2. Label elements	
GHS-US labelling	
No labelling applicable.	
2.3. Other hazards	
No additional information available.	
2.4. Unknown acute toxicity (G	
1 percent of the mixture consists of ing	,
SECTION 3: Composition/inf	formation on ingredients
3.1. Substance	
Not applicable.	
3.2. Mixture	

Safety Data Sheet

Name	Product identifier	%	GHS-US classification
	None by OSHA HazCom 2012 crit	eria.	
SECTION 4: First aid measures			
4.1. Description of first aid measure	9S		
First-aid measures after inhalation	: If breathing is difficult, remove victim breathing. Get medical advice/attenti		
First-aid measures after skin contact	: Immediately remove contaminated cl Get medical attention if irritation pers		h soap and copious amounts of water
First-aid measures after eye contact	: In case of contact, immediately flush If irritation persists, get medical atten		water. Remove contact lenses, if worr
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting anything by mouth to an unconscious		
4.2. Most important symptoms and	effects, both acute and delayed		
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.		
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms m	ay include redness, c	Irying, defatting and cracking of the skin
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms production, with possible redness an		fort or pain, excess blinking and tear
Symptoms/injuries after ingestion	: May be harmful if swallowed. May ca	use stomach distres	ss, nausea or vomiting.
4.3. Indication of any immediate me	dical attention and special treatment need	ed	
· · · · · · · · · · · · · · · · · · ·	se of accident or if you feel unwell, seek medical		show the label or SDS where possible)
SECTION 5: Firefighting measure	es		
5.1. Extinguishing media			
Suitable extinguishing media	: Treat for surrounding material.		
Unsuitable extinguishing media	: None known.		
5.2. Special hazards arising from th	e substance or mixture		
Fire hazard	: Products of combustion may include	, and are not limited	to: oxides of carbon.
5.3. Advice for firefighters	, . ,		
Protection during firefighting	: Keep upwind of fire. Wear full fire figl protection (SCBA).	hting turn-out gear (ull Bunker gear) and respiratory
SECTION 6: Accidental release n	neasures		
6.1. Personal precautions, protectiv	e equipment and emergency procedures		
General measures	: Use personal protection recommend unnecessary and unprotected persor		ate the hazard area and deny entry to
6.2. Methods and material for conta	inment and cleaning up		
For containment	 Contain and/or absorb spill with inert container. Do not flush to sewer or al Protective Equipment (PPE). 		
Methods for cleaning up	: Scoop up material and place in a dis	posal container.	
6.3. Reference to other sections	· · ·		
	ective clothing and equipment and section 13	for advice on waste	disposal.
SECTION 7: Handling and storag	le		
7.1. Precautions for safe handling			
Precautions for safe handling	: Avoid contact with skin and eyes. Av open container with care. When usin		
Hygiene measures	: Launder contaminated clothing befor	•	
7.2. Conditions for safe storage, inc	luding any incompatibilities		-
Storage conditions	: Keep container tightly closed.		
7.3. Specific end use(s)			

7.3. Specific end use(s)

Not available.

Safety Data Sheet

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available.

8.2. Exposure controls	
Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Wear suitable gloves.
Eye protection	: Safety glasses or goggles are recommended when handling product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical	pro	operties
9.1. Information on basic physical and	-	-
Physical state	:	Liquid
Appearance	:	Clear
Colour	:	Colorless
Odour	:	No data available
Odour threshold	:	No data available
рН	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	Not flammable
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Relative vapour density at 20 °C	:	No data available
Solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Log Kow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal storage conditions.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

10.3. Possibility of hazardous reactions				
No dangerous reaction known under conditions of normal use.				
10.4. Conditions to avoid				
Heat.				
10.5. Incompatible materials				
None known.				
10.6. Hazardous decomposition products May include, and are not limited to: oxides of carbo				
SECTION 11: Toxicological informatic	on and a second s			
11.1. Information on toxicological effects				
Acute toxicity	: Not classified.			
Pure & Conjugated Antibodies, Recombinant	Proteins, Avidin, and Streptavidin			
LD50 oral rat				
LD50 dermal rabbit				
LC50 inhalation rat				
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.			
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.			
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.			
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.			
Carcinogenicity	: Based on available data, the classification criteria are not met.			
Reproductive toxicity	: Based on available data, the classification criteria are not met.			
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.			
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.			
Aspiration hazard	: Based on available data, the classification criteria are not met.			
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.			
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.			
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.			
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.			
SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.			
12.2. Persistence and degradability				
Pure & Conjugated Antibodies, Recombinant	Proteins, Avidin, and Streptavidin			
Persistence and degradability	Not established.			
12.3. Bioaccumulative potential				
Pure & Conjugated Antibodies, Recombinant	Proteins, Avidin, and Streptavidin			
Bioaccumulative potential	Not established.			
12.4. Mobility in soil				
No additional information available.				
12.5. Other adverse effects	No known occlorical damage caused by this product			
Effect on the global warming	: No known ecological damage caused by this product.			

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
		ust be disposed of in accordance with all local, state, provincial, and federal generation of waste should be avoided or minimized wherever possible.
SECTION 14: Transport information		
Department of Transportation (DOT)		
In accordance with DOT		
Not regulated for transport.		
Additional information		
Other information :	No supplementa	ary information available.
Special transport precautions :	Do not handle u	ntil all safety precautions have been read and understood.
SECTION 15: Regulatory information		
15.1. US Federal regulations		
All components of this product are listed, or exclude Control Act (TSCA) inventory except for:	ed from listing, c	on the United States Environmental Protection Agency Toxic Substances
Phosphoric acid, monosodium salt, dihydrate		CAS No 13472-35-0
15.2. US State regulations		
Pure & Conjugated Antibodies, Recombinant Pro		•
State or local regulations		duct does not contain a chemical known to the State of California to cause cancer, acts or other reproductive harm.
SECTION 16: Other information		
Date of issue :	05/07/2015	

: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Other information



SAFETY DATA SHEET

Wash Buffer 20x

Section 1. Identification

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Section 2. Hazards identification

Date of issue/Date of revision	: 09/22/2021 Date of previous issue : 04/21/2017 Version : 2 1/1
Hazards not otherwise classified	: None known.
Disposal	Not applicable.
Storage	Not applicable.
Response	Not applicable.
Prevention	Not applicable.
Precautionary statements	
Hazard statements	: No known significant effects or critical hazards.
Signal word	: No signal word.
GHS label elements	
	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 20.8% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 20. 8%
Classification of the substance or mixture	: Not classified.
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.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

Ingredient name	Other names	%	CAS number
disodium hydrogenorthophosphate	-	≤3	7558-79-4

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. 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.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effect	ts			
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	: Treat symptomatically. Contact poison treatment specialist immediately if I quantities have been ingested or inhaled.	large
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable train	ning.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media	
Suitable 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: phosphorus oxides halogenated compounds metal oxide/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 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, protect	tive 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. 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 co	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
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 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.

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Section 7. Handling and storage

Precautions for safe handling	
Protective measures :	Put on appropriate personal protective equipment (see Section 8).
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

I	ngredient name	Exposure limits
C	disodium hydrogenorthophosphate	None.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection mea	<u>sures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: 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.
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Section 8. Exposure controls/personal protection

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	: Liquid. [Clear.]
Color	: Colorless.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 6.25 to 6.35
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not applicable.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

Section 10. Stability and reactivity

Reactivity	1	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.

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Section 10. Stability and reactivity

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
disodium hydrogenorthophosphate	LD50 Oral	Rat	17000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
disodium hydrogenorthophosphate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Mutagenicity		
Conclusion/Summary	: Not available.	
<u>Carcinogenicity</u>		
Conclusion/Summary	: Not available.	
Reproductive toxicity		
Conclusion/Summary	: Not available.	
Teratogenicity		
Conclusion/Summary	: Not available.	
Specific target organ toxi	<u>city (single exposure)</u>	
Not available.		
Specific target organ toxi Not available.	<u>city (repeated exposure)</u>	
Aspiration hazard Not available.		
Information on the likely routes of exposure	: Routes of entry anticipated: Oral, Dermal, Inhalation.	
Potential acute health effe	<u>cts</u>	
Eye contact	: No known significant effects or critical hazards.	
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Section 11. Toxicological information

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

<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 Route ATE value Oral 16835 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
disodium hydrogenorthophosphate	Acute EC50 >100 mg/l	Algae	72 hours
	Acute LC50 3580000 µg/l Fresh water Acute LC50 >100 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours

Section 12. Ecological information

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
disodium hydrogenorthophosphate	-5.8	-	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. 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.

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Section 14. Transport information

Transport in bulk: Not available.according to Annex II ofMARPOL and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	1	United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 311: disodium hydrogenorthophosphate
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	1	Not listed
Clean Air Act Section 602 Class II Substances	;	Not listed
DEA List I Chemicals (Precursor Chemicals)	1	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
disodium hydrogenorthophosphate	≤3	No.	No.	No.	Yes.	No.

SARA 313

Not applicable.

State regulations

Massachusetts	 The following components are listed: PHOSPHORIC ACID, DISODIUM SALT; SODIUM PHOSPHATE, DIBASIC 					
New York	: The followi	ng components are listed	d: Sodium phosphate	, dibasic		
New Jersey	: The following components are listed: SODIUM PHOSPHATE, DIBASIC; PHOSPHORIC ACID, DISODIUM SALT					
Pennsylvania	: The following components are listed: PHOSPHORIC ACID, DISODIUM SALT					
California Prop. 65						
International regulations						
Chemical Weapon Conv	vention List Sche	<u>dules I, II & III Chemica</u>	<u>ls</u>			
Not listed.						
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Section 15. Regulatory information

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification Not classified.			Justification			
History]
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Section 16. Other information

Version	: 2
Prepared by	: BioLegend
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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

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