

SAFETY DATA SHEET

IMT assay (anti-CD71) tethering kit, Part Number 8100017

Section 1. Identification

Product identifier : IMT assay (anti-CD71) tethering kit, Part Number 8100017
Part no. (chemical kit) : 8100017
Part no. : Tethering Reagent (anti-CD71) 8710260
 10X Tethering Buffer 871B617
 Cytolysis Reagent 8710239

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For research use only.
 Tethering Reagent (anti-CD71) 0.25 ml
 10X Tethering Buffer 10 ml
 Cytolysis Reagent 10 ml

Uses advised against : Not for use in diagnostic procedures (RUO).

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Tethering Reagent (anti-CD71)
 H412

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Cytolysis Reagent
 H318
 H400
 H411

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

GHS label elements

Hazard pictograms : Cytolysis Reagent



Signal word : Tethering Reagent (anti-CD71) No signal word.
 10X Tethering Buffer No signal word.
 Cytolysis Reagent DANGER

Hazard statements : Tethering Reagent (anti-CD71) H412 - Harmful to aquatic life with long lasting effects.
 10X Tethering Buffer No known significant effects or critical hazards.
 Cytolysis Reagent H318 - Causes serious eye damage.
 H400 - Very toxic to aquatic life.
 H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Section 2. Hazard(s) identification

Prevention	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	P273 - Avoid release to the environment. Not applicable. P280 - Wear eye or face protection. P273 - Avoid release to the environment.
Response	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	Not applicable. Not applicable. P391 - Collect spillage. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	Not applicable. Not applicable. Not applicable.
Disposal	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements		
Additional warning phrases	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	Not applicable. Not applicable. Not applicable.
Other hazards which do not result in classification	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	None known. None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	Mixture Mixture Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Tethering Reagent (anti-CD71)		
Sodium azide	<1	26628-22-8
Cytolysis Reagent		
Polyoxyethylene octyl phenyl ether	<10	9002-93-1

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.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	: Tethering Reagent (anti-CD71)	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.
	10X Tethering Buffer	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.
	Cytolysis Reagent	Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Tethering Reagent (anti-CD71)	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	10X Tethering Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Cytolysis Reagent	Get medical attention immediately. Call a poison center or physician. 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. 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.
Skin contact	: Tethering Reagent (anti-CD71)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10X Tethering Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Cytolysis Reagent	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Tethering Reagent (anti-CD71)	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.
	10X Tethering Buffer	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.
	Cytolysis Reagent	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been

Section 4. First aid measures

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. Chemical burns must be treated promptly by a physician. 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	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes serious eye damage.
Inhalation	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No specific data. No specific data. Adverse symptoms may include the following: pain watering redness
Inhalation	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No specific data. No specific data. No specific data.
Skin contact	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No specific data. No specific data. Adverse symptoms may include the following: stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Section 4. First aid measures

Notes to physician	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. 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. Firefighting measures

Extinguishing media

Suitable extinguishing media	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	None known. None known. None known.
Specific hazards arising from the chemical	: Tethering Reagent (anti-CD71) 10X Tethering Buffer Cytolysis Reagent	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Section 5. Firefighting measures

Hazardous thermal decomposition products	: Tethering Reagent (anti-CD71)	No specific data.
	10X Tethering Buffer	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Cytolysis Reagent	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Tethering Reagent (anti-CD71)	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.
	10X Tethering Buffer	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.
	Cytolysis Reagent	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	: Tethering Reagent (anti-CD71)	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10X Tethering Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Cytolysis Reagent	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	: Tethering Reagent (anti-CD71)	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 spilt material. Put on appropriate personal protective equipment.
	10X Tethering Buffer	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 spilt material. Put on appropriate personal protective equipment.
	Cytolysis Reagent	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 spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

For emergency responders :

Tethering Reagent (anti-CD71)	If specialised 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".
10X Tethering Buffer	If specialised 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".
Cytolysis Reagent	If specialised 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 :

Tethering Reagent (anti-CD71)	Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities.
10X Tethering Buffer	Avoid dispersal of spilt 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).
Cytolysis Reagent	Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

Methods for cleaning up :

Tethering Reagent (anti-CD71)	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.
10X Tethering Buffer	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.
Cytolysis Reagent	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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures :

Tethering Reagent (anti-CD71)	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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
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Section 7. Handling and storage

	10X Tethering Buffer	and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (see Section 8).
	Cytolysis Reagent	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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	: Tethering Reagent (anti-CD71)	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.
	10X Tethering Buffer	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.
	Cytolysis Reagent	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	: Tethering Reagent (anti-CD71)	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	10X Tethering Buffer	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Cytolysis Reagent	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. Store locked up. Keep container tightly closed

Section 7. Handling and storage

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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Tethering Reagent (anti-CD71) Sodium azide	Safe Work Australia (Australia, 12/2019). PEAK: 0.11 ppm PEAK: 0.3 mg/m ³

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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 measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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.

Section 9. Physical and chemical properties and safety characteristics

Ingredient name	Vapour Pressure at 20° C			Vapour pressure at 50° C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Tethering Reagent (anti-CD71)						
water	23.8	3.2		92.258	12.3	
10X Tethering Buffer						
water	23.8	3.2		92.258	12.3	
Cytolysis Reagent						
water	23.8	3.2		92.258	12.3	
Polyoxyethylene octyl phenyl ether	0.997581	0.13				

Relative vapour density : Tethering Reagent (anti-CD71) Not available.

10X Tethering Buffer Not available.

Cytolysis Reagent Not available.

Relative density : Tethering Reagent (anti-CD71) Not available.

10X Tethering Buffer Not available.

Cytolysis Reagent Not available.

Solubility(ies) :

Media	Result
Tethering Reagent (anti-CD71)	
water	Soluble
10X Tethering Buffer	
water	Soluble
Cytolysis Reagent	
water	Soluble

Partition coefficient: n-octanol/water : Tethering Reagent (anti-CD71) Not applicable.

10X Tethering Buffer Not applicable.

Cytolysis Reagent Not applicable.

Auto-ignition temperature : Tethering Reagent (anti-CD71) Not available.

10X Tethering Buffer Not available.

Cytolysis Reagent Not available.

Decomposition temperature : Tethering Reagent (anti-CD71) Not available.

10X Tethering Buffer Not available.

Cytolysis Reagent Not available.

Viscosity : Tethering Reagent (anti-CD71) Not available.

10X Tethering Buffer Not available.

Cytolysis Reagent Not available.

Particle characteristics

Section 9. Physical and chemical properties and safety characteristics

Median particle size	: Tethering Reagent (anti-CD71)	Not applicable.
	10X Tethering Buffer	Not applicable.
	Cytolysis Reagent	Not applicable.

Section 10. Stability and reactivity

Reactivity	: Tethering Reagent (anti-CD71)	No specific test data related to reactivity available for this product or its ingredients.
	10X Tethering Buffer	No specific test data related to reactivity available for this product or its ingredients.
	Cytolysis Reagent	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Tethering Reagent (anti-CD71)	The product is stable.
	10X Tethering Buffer	The product is stable.
	Cytolysis Reagent	The product is stable.
Possibility of hazardous reactions	: Tethering Reagent (anti-CD71)	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X Tethering Buffer	Under normal conditions of storage and use, hazardous reactions will not occur.
	Cytolysis Reagent	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Tethering Reagent (anti-CD71)	No specific data.
	10X Tethering Buffer	No specific data.
	Cytolysis Reagent	No specific data.
Incompatible materials	: Tethering Reagent (anti-CD71)	May react or be incompatible with oxidising materials.
	10X Tethering Buffer	May react or be incompatible with oxidising materials.
	Cytolysis Reagent	May react or be incompatible with oxidising materials.
Hazardous decomposition products	: Tethering Reagent (anti-CD71)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	10X Tethering Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Cytolysis Reagent	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Tethering Reagent (anti-CD71) Sodium azide	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.054 to 0.52 mg/l	4 hours
	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
Cytolysis Reagent Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Cytolysis Reagent Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : **Tethering Reagent (anti-CD71)** Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
10X Tethering Buffer Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Cytolysis Reagent Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : **Tethering Reagent (anti-CD71)** No known significant effects or critical hazards.
10X Tethering Buffer No known significant effects or critical hazards.
Cytolysis Reagent Causes serious eye damage.

Inhalation : **Tethering Reagent (anti-CD71)** No known significant effects or critical hazards.
10X Tethering Buffer No known significant effects or critical hazards.
Cytolysis Reagent No known significant effects or critical hazards.

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Skin contact	: Tethering Reagent (anti-CD71)	No known significant effects or critical hazards.
	10X Tethering Buffer	No known significant effects or critical hazards.
	Cytolysis Reagent	No known significant effects or critical hazards.
Ingestion	: Tethering Reagent (anti-CD71)	No known significant effects or critical hazards.
	10X Tethering Buffer	No known significant effects or critical hazards.
	Cytolysis Reagent	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Tethering Reagent (anti-CD71)	No specific data.
	10X Tethering Buffer	No specific data.
	Cytolysis Reagent	Adverse symptoms may include the following: pain watering redness
Inhalation	: Tethering Reagent (anti-CD71)	No specific data.
	10X Tethering Buffer	No specific data.
	Cytolysis Reagent	No specific data.
Skin contact	: Tethering Reagent (anti-CD71)	No specific data.
	10X Tethering Buffer	No specific data.
	Cytolysis Reagent	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Tethering Reagent (anti-CD71)	No specific data.
	10X Tethering Buffer	No specific data.
	Cytolysis Reagent	Adverse symptoms may include the following: stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

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 effects

General	: Tethering Reagent (anti-CD71)	No known significant effects or critical hazards.
	10X Tethering Buffer	No known significant effects or critical hazards.
	Cytolysis Reagent	No known significant effects or critical hazards.
Carcinogenicity	: Tethering Reagent (anti-CD71)	No known significant effects or critical hazards.
	10X Tethering Buffer	No known significant effects or critical hazards.
	Cytolysis Reagent	No known significant effects or critical hazards.
Mutagenicity	: Tethering Reagent (anti-CD71)	No known significant effects or critical hazards.
	10X Tethering Buffer	No known significant effects or critical hazards.
	Cytolysis Reagent	No known significant effects or critical hazards.

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Reproductive toxicity	: Tethering Reagent (anti-CD71)	No known significant effects or critical hazards.
	10X Tethering Buffer	No known significant effects or critical hazards.
	Cytolysis Reagent	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)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Tethering Reagent (anti-CD71) Sodium azide	27	20	N/A	N/A	0.054
Cytolysis Reagent Cytolysis Reagent	18181.8	N/A	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Tethering Reagent (anti-CD71) Sodium azide	Acute EC50 9200 µg/l Marine water Acute EC50 6.4 mg/l Fresh water	Algae - <i>Macrocystis pyrifera</i> Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	96 hours 48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water Chronic NOEC 5600 µg/l Marine water	Fish - <i>Lepomis macrochirus</i> Algae - <i>Macrocystis pyrifera</i>	96 hours 96 hours
Cytolysis Reagent Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water Acute LC50 11.2 mg/l Fresh water Acute LC50 4500 µg/l Fresh water	Crustaceans - <i>Ceriodaphnia rigaudi</i> - Neonate Daphnia - <i>Daphnia magna</i> - Neonate Fish - <i>Pimephales promelas</i>	48 hours 48 hours 96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Cytolysis Reagent Polyoxyethylene octyl phenyl ether	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Cytolysis Reagent Polyoxyethylene octyl phenyl ether	4.86	-	high

Mobility in soil

Section 12. Ecological information

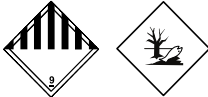
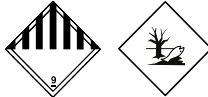
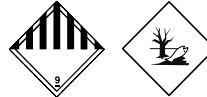
Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADG	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyoxyethylene octyl phenyl ether)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyoxyethylene octyl phenyl ether)	Environmentally hazardous substance, liquid, n.o.s. (Polyoxyethylene octyl phenyl ether)
Transport hazard class(es)	9 	9 	9 
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.

Additional information

Remarks: Excepted Quantity

- ADG** : The product is not regulated as a dangerous good when transported by road or rail in either an IBC, or in other container types if ≤500 kg. This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Hazchem code •3Z
Special provisions 274, 331, 335, 375, AU01
- IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Emergency schedules F-A, S-F
Special provisions 274, 335, 969
- IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
Quantity limitation Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.
Special provisions A97, A158, A197, A215

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 to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: All components are listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): All components are listed or exempted.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision	: 20/12/2022
Date of previous issue	: 07/05/2020
Version	: 3

Section 16. Any other relevant information

Key to abbreviations

- : ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification

Classification	Justification
Tethering Reagent (anti-CD71) LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method
Cytolysis Reagent SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	Calculation method Calculation method Calculation method

 Indicates information that has changed from previously issued version.

Notice to reader

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