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1 Identification

- · Product identifier
- Trade name: 7-AAD Viability Dye (1,000X)
- · Article number: 400201
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.
- · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CĂNADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification
· Classification of the substance or mixture
GHS02 Flame
GHSUZ Flame
Flam. Liq. 2 H225 Highly flammable liquid and vapor.
GHS08 Health hazard
Carc. 1A H350 May cause cancer.
Repr. 1A H360 May damage fertility or the unborn child.
STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.
· Label elements
· GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
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	(Contd. from page 1)
Hazard pictog	rams
< ()) < ()	
GHS02 GHS	08
Signal word Da	anger
	nining components of labeling:
Methanol	
7-Aminoactinon	
Hazard statem	
	mmable liquid and vapor.
H350 May caus	
	age fertility or the unborn child.
	e damage to the central nervous system and the visual organs.
Precautionary	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P3	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with
200,0212	water/shower.
P308+P313 P370+P378	IF exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 001	regulations.
Classification	
NFPA ratings (
He He	ealth = 0
Fi	re = 3
10 10 Re	eactivity = 0
▼	
HMIS-ratings (scale 0 - 4)

HEALTH Health = *0 *0 FIRE ³ Fire = 3 REACTIVITY 0 Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

[·] Dangerous components:		
CAS: 67-56-1 RTECS: PC1400000	Methanol	5.0%
CAS: 7240-37-1 RTECS: AU1579000	7-Aminoactinomycin D	0.1%
· Other ingredients		
CAS: 7732-18-5 RTECS: ZC0110000	Water	93.916%
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	0.8%
CAS: 7558-79-4 RTECS: WC4500000	Sodium phosphate, Dibasic	0.14%
CAS: 7778-77-0 RTECS: TC6615500	Potassium phosphate, Monobasic	0.024%
CAS: 7447-40-7 RTECS: TS8050000	Potassium chloride	0.02%

4 First-aid measures

· Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.

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· Advice for firefighters

• Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Mount resp	precautions, protective equipment and emergency procedures piratory protective device.			
	ective equipment. Keep unprotected persons away.			
	ental precautions:			
	plenty of water.			
	w to enter sewers/ surface or ground water.			
	and material for containment and cleaning up:			
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdu	st).		
	ontaminated material as waste according to item 13.			
	equate ventilation.			
	to other sections			
	n 7 for information on safe handling.			
	n 8 for information on personal protection equipment. n 13 for disposal information.			
	Action Criteria for Chemicals			
	Action officina for offerindals			
· PAC-1:				
67-56-1	Methanol	530 ppm		
7778-77-0	Potassium phosphate, Monobasic 9.6 mg/m ³			
· PAC-2:				
67-56-1	Methanol	2,100 ppm		
7778-77-0	8-77-0 Potassium phosphate, Monobasic 110 mg/m ³			
· PAC-3:				
67-56-1	Methanol	7200* ppm		
7778-77-0	Potassium phosphate, Monobasic 630 mg/m ³			

7 Handling and storage

- · Handling:
- Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
 Information about protection against explosions at the second sec
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

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· Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm
- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
- Short-term value: 250 ppm TLV Long-term value: 200 ppm Skin; BEI

· Ingredients with biological limit values:

67-56-1 Methanol

BEI 15 ma/L

Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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• Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties
Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not determined.
Formulation	50 μ l of 7-AAD Viability Dye (1,000X) in PBS, pH 7.2
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	64.7 °C (148.5 °F)
Flash point:	11 °C (51.8 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	455 °C (851 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F):	0.99–1.0101 g/cm³ (8.26155–8.42928 lbs/gal)
Bulk density:	990–1,010 kg/m³
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity: Dynamic at 20 °C (68 °F):	0.952 mPas
· ·	(Contd. on page

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Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	5.0 %	
Water:	93.9 %	
VOC content:	5.00 %	
	49.5–50.5 g/l / 0.41–0.42 lb/gal	
Solids content:	1.1 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: carbon dioxide, carbon monoxide, nitrogen oxides

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

ATE (Acute Tox	cicity Estimate)			
Oral	LD50	LD50 5,000 mg/kg		
67-56-1 Methan	ol			
Oral	LDLO	143 mg/kg (hmn)		
	TDLO	5 ml/kg (rat)		
	LD50	5,600 mg/kg (rat)		
Dermal	LD50	15,800 mg/kg (rabbit)		
Inhalative	LC50/4 h	64,000 mg/m³ (rat)		
	LC50	61,100 mg/m³/134 m (mouse)		
Irritation of skin	Irritation	20 mg/24h (rabbit)		
	Irritation	(rabbit)		
	Irritation	5.63 mg/kg/exempt preparation (rabbit)		
Irritation of eyes	Irritation	40 mg (rabbit)		
	Intraperitoneal TDLO	5 mg/kg (rat)		
	Intraperitoneal LD50	10,765 mg/kg (mouse)		
	Subcutaneous LD50	143 mg/kg/human (mouse)		
	Data	20 mg/24h (rabbit)		

• on the skin: No irritant effect. • on the eye: No irritating effect.

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• Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Methanol)
IMDG	FLAMMABLE LIQUID, N.Ò.S. (METHANOL)

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Transport hazard class(es) DOT Impose Class 3 Flammable liquids Label 3 IMDG, IATA Impose 3 Class 3 Flammable liquids Label 3 Packing group 1 DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 EMS Number: Stowage Category B Transport in bulk according to Annex II of Mot applicable. Transport in bulk according to Annex II of Not applicable. Transport in bulk according to Annex II of Not applicable. Transport in bulk according to Annex II of Not applicable. Transport Additional information: DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L II IMDG 1L Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging		(Contd. from page
DOT Class 3 Flammable liquids 3 IMDG, IATA Class 3 Flammable liquids 3 IMDG, IATA Class 3 Flammable liquids 3 Packing group DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 FMS Number: F-E, S-E Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L IMDG Limited quantities (LQ) 1L Excepted quantities (EQ) 1L KATA Remarks: When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dargerous Goods/Excepted Quantity. UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOI	ΙΑΤΑ	Flammable liquid, n.o.s. (METHANOL)
Label 3 IMDG, IATA Imposed of the second	Transport hazard class(es)	
Label 3 IMDG, IATA Imposed of the second	DOT	
Label 3 IMDG, IATA Imposed of the second		
Label 3 IMDG, IATA Impose of the second	12/MARE 2000	
IMDG, IATA •••••••••••••••••••••••••••••		
Class 3 Flammable liquids Label 3 Packing group DOT, IMDG, IATA DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 F-E,S-E Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L IMDG 1L Excepted quantities (LQ) 1L Excepted quantities (EQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IATA Remarks: When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.0. Therefore packaging does not have to be labeled a Dangerous GoodS/Excepted Quantity. UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOI		3
Label 3 Packing group DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 F-E,S-E Stowage Category B Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L IMDG Limited quantities (LQ) Limited quantities (EQ) 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IATA Remarks: When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity. UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOI		
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DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Flammable liquids Hazard identification number (Kemler code): 33 EMS Number: F-E,S-E Stowage Category B Transport in bulk according to Annex II of Not applicable. MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: DOT Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L IMDG 1L Excepted quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IATA Remarks: When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity. UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOI	Label	3
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MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: On passenger aircraft/rail: 5 L DOT On passenger aircraft/rail: 5 L Quantity limitations On passenger aircraft/rail: 5 L IMDG IL Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml IATA Remarks: When sold in quantities of less than or equal to 1 m or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minim Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity. UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOI		В
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UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL		Therefore packaging does not have to be labeled a
	UN "Model Regulation":	

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Trade name: 7-AAD Viability Dye (1,000X)

(Contd. from page 9)

Ione of the ingredients is listed. Section 313 (Specific toxic chemical listings): 7-56-1 Methanol SCA (Toxic Substances Control Act): 732-18-5 Water 67-56-1 Methanol 647-14-5 Sodium chloride 558-79-4 Sodium phosphate, Dibasic 778-77-0 Potassium phosphate, Monobasic 447-40-7 Potassium chloride Izzardous Air Pollutants 7-56-1 Methanol Proposition 65 Chemicals known to cause cancer: Ione of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: Ione of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: Ione of the ingredients is listed.	
7-56-1 Methanol SCA (Toxic Substances Control Act): 732-18-5 Water 67-56-1 Methanol 647-14-5 Sodium chloride 558-79-4 Sodium phosphate, Dibasic 778-77-0 Potassium phosphate, Monobasic 447-40-7 Potassium chloride Iazardous Air Pollutants 7-56-1 7-56-1 Methanol Proposition 65 Schemicals known to cause cancer: Ione of the ingredients is listed. Schemicals known to cause reproductive toxicity for females: Ione of the ingredients is listed. Schemicals known to cause reproductive toxicity for males:	
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Chemicals known to cause reproductive toxicity for males:	
· ·	
lone of the ingredients is listed	
Chemicals known to cause developmental toxicity:	

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal

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Trade name: 7-AAD Viability Dye (1,000X)

(Contd. from page 10) protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 11/29/2021 / -

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit **BEI: Biological Exposure Limit** Flam. Liq. 2: Flammable liquids – Category 2 Carc. 1A: Carcinogenicity – Category 1A Repr. 1A: Reproductive toxicity - Category 1A STOT SE 2: Specific target organ toxicity (single exposure) - Category 2

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1 Identification

- · Product identifier
- · Trade name: CFSE Stock Solution
- Article number: 600121
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Cayman Chemical Co.
 1180 E. Ellsworth Rd.
 Ann Arbor, MI 48108
 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

	on of the substance or mixture IS08 Health hazard
Carc. 2	H351 Suspected of causing cancer.
STOT SE 2	H371 May cause damage to organs.
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.
\checkmark	HS07 H315 Causes skin irritation.
Eye Irrit. 2A	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.
	H227 Combustible liquid.
Flam. Liq. 4	

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Trade name: CFSE Stock Solution

. Hozard piotog	(Contd. from page 1)
· Hazard pictog	rams
GHS07 GHS	308
[.] Signal word ∀	Varning
· Hazard-detern	nining components of labeling:
	kide, anhydrous
Hazard staten	nents
H227 Combust	
H315 Causes	
	serious eye irritation.
	ed of causing cancer.
	se damage to organs.
	se respiratory irritation.
	se damage to organs through prolonged or repeated exposure.
 Precautionary P201 	
P201 P202	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
P202 P210	Keep away from flames and hot surfaces. – No smoking.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P321	Specific treatment (see on this label).
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish.
P370+P378 P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
1 001	regulations.
Classification	
• NFPA ratings	



· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE2Fire = 2REACTIVITY0

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(Contd. from page 2)

99.8885%

0.1115%

Trade name: CFSE Stock Solution

- · Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 67-68-5 Dimethyl sulfoxide, anhydrous RTECS: PV6210000

Other ingredients

150347-59-4 CFDA-SE

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

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Trade name: CFSE Stock Solution

(Cont	d. from page 3)
Wear protective equipment. Keep unprotected persons away.	
Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdus	st).
Dispose contaminated material as waste according to item 13.	
Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
· PAC-1:	
67-68-5 Dimethyl sulfoxide, anhydrous	150 ppm
· PAC-2:	
67-68-5 Dimethyl sulfoxide, anhydrous	290 ppm
· PAC-3:	
67-68-5 Dimethyl sulfoxide, anhydrous	1,800 ppm

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities Keep container tightly closed.
 Store in accordance with information listed on the product insert.
- Store in accordance with information listed on the product insert.
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters

· Components with limit values that require monitoring at the workplace:

67-68-5 Dimethyl sulfoxide, anhydrous

WEEL Long-term value: 250 ppm

• Additional information: The lists that were valid during the creation were used as basis.

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(Contd. from page 4)

- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Not determined.	
Odor:	Characteristic	
Odor threshold:	Not determined.	
Formulation	100 μ l of CFSE as a solution in DMSO	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	18.45 °C (65.2 °F)	
Boiling point/Boiling range:	189 °C (372.2 °F)	
	· · · /	(Contd. on pag

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Trade name: CFSE Stock Solution

	(Contd. from page 5)
· Flash point:	89 °C (192.2 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	270 °C (518 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
 Explosion limits: Lower: Upper: 	1.8 Vol % 63 Vol %
· Vapor pressure at 20 °C (68 °F):	2.5 hPa (1.9 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1.1 g/cm³ (9.1795 lbs/gal) Not determined. Not determined. Not determined.
 Solubility in / Miscibility with Water: 	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
 Viscosity: Dynamic at 20 °C (68 °F): Kinematic: 	198 mPas Not determined.
 Solvent content: Organic solvents: VOC content: 	99.9 % 99.89 % 998.9 g/l / 8.34 lb/gal
Solids content:	0.1 %
• Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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Trade name: CFSE Stock Solution

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Acut	rmation on toxicolog te toxicity:	
		relevant for classification:
	8-5 Dimethyl sulfoxio	7,200 mg/kg (mouse)
Ulai	LDJU	14,500 mg/kg (rat)
	Intraperitoneal I D50	2,500 mg/kg (mouse)
		14,000 mg/kg (mouse)
• on th • on th • Sens • Addi The	he eye: Irritating effect sitization: No sensitiz itional toxicological i product shows the fo	ing effects known.
• on th • on th • Sens • Addi The prepa Irrita	he skin: Irritant to skin he eye: Irritating effect sitization: No sensitiz itional toxicological i product shows the for arations: nt	t. ing effects known. I nformation:
• on th • on th • Sens • Addi The prepa Irrita	he skin: Irritant to skin he eye: Irritating effect sitization: No sensitiz itional toxicological i product shows the for arations: nt cinogenic categories	t. ing effects known. i nformation: ollowing dangers according to internally approved calculation methods f
• on th • on th • Sens • Addi The prepa Irritan • Carco • IARC	he skin: Irritant to skir he eye: Irritating effect sitization: No sensitiz itional toxicological i product shows the for arations: nt cinogenic categories C (International Agen	t. ing effects known. i nformation: ollowing dangers according to internally approved calculation methods f cy for Research on Cancer)
• on th • on th • Sense • Addi The prepa Irritat • Carce • IARC	he skin: Irritant to skir he eye: Irritating effect sitization: No sensitiz itional toxicological i product shows the for arations: nt cinogenic categories C (International Agen e of the ingredients is	t. ing effects known. information: ollowing dangers according to internally approved calculation methods f cy for Research on Cancer) listed.
on the on the Sense Addi The prepa Irritate Carce None NTP	he skin: Irritant to skir he eye: Irritating effect sitization: No sensitiz itional toxicological is product shows the for arations: nt cinogenic categories C (International Agen e of the ingredients is (National Toxicolog)	t. ing effects known. information: ollowing dangers according to internally approved calculation methods f cy for Research on Cancer) listed. y Program)
on the on the Sense Addi The prepa Irritati Carce None None	he skin: Irritant to skir he eye: Irritating effect sitization: No sensitiz itional toxicological is product shows the for arations: nt cinogenic categories C (International Agen e of the ingredients is (National Toxicolog) e of the ingredients is	t. ing effects known. information: ollowing dangers according to internally approved calculation methods f cy for Research on Cancer) listed. y Program)

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

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Trade name: CFSE Stock Solution

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG IATA	Flammable liquids, n.o.s. FLAMMABLE LIQUID, N.O.S. Flammable liquid, n.o.s.
Transport hazard class(es)	
DOT	
FLAMMARE LODO	
Class	3 Flammable liquids
Label IMDG, IATA	3
Class	2 Elammable liquide
Label	3 Flammable liquids 3
	0
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	
EMS Number:	F-E, <u>S-E</u>
	A
Stowage Category Transport in bulk according to Annex II of	

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Trade name: CFSE Stock Solution

	(Contd. from page 8)
· Transport/Additional information:	
DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IATA · Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

67-68-5 Dimethyl sulfoxide, anhydrous

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 11/29/2021 / -

 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Flam. Liq. 4: Flammable liquids - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Carc. 2: Carcinogenicity - Category 2 STOT SE 2: Specific target organ toxicity (single exposure) - Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 * Data compared to the previous version altered.



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1 Identification

- Product identifier
- · Trade name: Cell-Based Assay Buffer Tablet
- Article number: 10009322
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Cayman Chemical Co.
 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

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Trade name: Cell-Based Assay Buffer Tablet

Hazard pictogi	rams (Contd. from page
<u><!-- --></u>	
GHS07 GHS	08
Signal word W	larning
	ining components of labeling:
Sodium chloride	
•	sphate, Monobasic
Hazard statem	
H315 Causes s	erious eye irritation.
	e respiratory irritation.
	e damage to organs through prolonged or repeated exposure.
Precautionary	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / eye protection / face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses
D240	present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P321 P314	Specific treatment (see on this label). Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/internation
	regulations.
Classification	
NFPA ratings (scale 0 - 4)
<u>і</u> ц.	ealth = 2
	re = 0
	eactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH*2FIRE0REACTIVITY0Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

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Trade name: Cell-Based Assay Buffer Tablet

(Contd. from page 2)

Chemical characteri	ormation on ingredients zation: Mixtures of the substances listed below with nonhazardous additions.	
· Dangerous compone	ents:	
CAS: 7647-14-5 RTECS: VZ4725000	Sodium chloride	81.4%
CAS: 7778-77-0 RTECS: TC6615500	Potassium phosphate, Monobasic	2.2%
· Other ingredients		
CAS: 7558-79-4 RTECS: WC4500000	Sodium phosphate, Dibasic	14.4%
CAS: 7447-40-7 RTECS: TS8050000	Potassium chloride	2.0%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- **Special hazards arising from the substance or mixture** 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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Personal precautions, protective equipment and emergency procedures	
Mount respiratory protective device.	
Environmental precautions: Do not allow to enter sewers/ surface or ground water.	
Methods and material for containment and cleaning up:	
Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.	
Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	
See Section 13 for disposal information.	
Protective Action Criteria for Chemicals	
PAC-1:	
	9.6 mg/m ³
7778-77-0 Potassium phosphate, Monobasic	
7778-77-0 Potassium phosphate, Monobasic PAC-2: PAC-2:	
	110 mg/m ³
PAC-2:	110 mg/m ³

7 Handling and storage

- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists that were valid during the creation were used as basis.

• Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.

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(Contd. from page 4)

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · General Information
- · Appearance:

· Appearance:	
Form:	Solid
Color:	Not determined.
· Odor:	Characteristic
· Odor threshold:	Not determined.
· Formulation	PBS tablet
· pH-value:	Not applicable.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
	(Contd. on page

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		(Contd. from page §
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
· Density:	Not determined.	
Relative density	Not determined.	
· Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/	water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
VOC content:	0.00 %	
Solids content:	100.0 %	
· Other information	No further relevant information available).

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

7647-14-5 Sodium chloride				
Oral	LDLO	1,000 mg/kg (man)		
	TDLO	650 ml/kg (man)		
	LD50	4,000 mg/kg (mouse)		
		3,000 mg/kg (rat)		
	LD50	4 g/kg (mouse)		
Inhalative	LC50	320 mg/m³ (mouse)		
	TCLO	0.63 mg/m ³ (hmn)		
	LCLO	29,300 mg/m³/7h (mouse)		
			(Contd. on pa	

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		(Contd. from page 6
Irritation of skin	Irritation	500 mg/24h (rabbit)
Irritation of eyes	Irritation	100 mg/24h (rabbit)
	Intraperitoneal LD50	2,602 mg/kg (mouse)
	Subcutaneous LD50	31.6 mg/kg (rat)
	Intravenous LD50	59.5 mg/kg (rat)
	Data	15 mg/3D (hmn)
	Subcutaneous LD50	3 g/kg (mouse)
7778-77-0 Potas	sium phosphate, Mo	onobasic
Oral	LDLO	4,640 mg/kg (rat)
Additional toxic	lo sensitizing effects k cological information ows the following dar	
· Carcinogenic ca	ategories	
· IARC (Internatio	onal Agency for Rese	earch on Cancer)
None of the ingre	edients is listed.	
· NTP (National T	oxicology Program)	
None of the ingre	edients is listed.	
	pational Safety & He	alth Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

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Trade name: Cell-Based Assay Buffer Tablet

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13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

Transport information	
UN-Number DOT, IMDG, IATA	not regulated
UN proper shipping name DOT, IMDG, IATA	not regulated
Transport hazard class(es)	
DOT, ADN, IMDG, IATA Class	not regulated
Packing group DOT, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	t II of Not applicable.
UN "Model Regulation":	not regulated

15 Regulatory information

· Sara

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

Section 355 (extremely hazardous substances):
None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
Hazardous Air Pollutants
None of the ingredients is listed.
Proposition 65
Chemicals known to cause cancer:
None of the ingredients is listed.

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Trade name: Cell-Based Assay Buffer Tablet

(Contd. from page 8)

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- Date of preparation / last revision 11/03/2021 / -

• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2