

Section 1 - Identification

Product Name <u>A7 Agar w/Phenol Red</u>

Product Code R20211

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Recommended Use Laboratory chemicals.

Uses advised against

This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list.

Verify requirements related to using, handling and storing these substances. This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product contains one or more substance(s) listed on the voluntary National Code of

Practice for Chemicals of Security Concern.

Section 2 - Hazard(s) Identification

Classification under Safe Work Australia

Classified as not hazardous according to criteria of Safe Work Australia.

Physical hazards

No hazards identified

Health hazards

No hazards identified

Environmental hazards

No hazards identified

<u>Label Elements</u> None required

Other information

This product does not contain any known or suspected endocrine disruptors

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Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Water	7732-18-5	78.16
Calcium chloride, dihydrate	10035-04-8	Trace
Agar	9002-18-0	1.25
Yeast, ext.	8013-01-2	0.22
HORSE SERUM	RR-36477-2	17.88
Urea	57-13-6	Trace
Penicillin G potassium	113-98-4	Trace
Glucose	50-99-7	Trace
Amphotericin B	1397-89-3	Trace
Vitamin B12	68-19-9	Trace
L-Glutamine	32640-56-5	Trace
Adenine (6-Aminopurine)	73-24-5	Trace
6H-Purin-6-one, 2-amino-1,7-dihydro-, monohydrochloride	635-39-2	Trace
p-Aminobenzoic acid	150-13-0	Trace
Thiazolium,	154-87-0	Trace
3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-4-methyl-5-(4,6		
,6-trihydroxy-3,5-dioxa-4,6-diphosphahex-1-yl)-, chloride,		
P,P'-dioxide		
Iron(III) nitrate nonahydrate	7782-61-8	Trace
Thiazolium,	67-03-8	Trace
3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyet		
hyl)-4-methyl- chloride, monohydrochloride		_
Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester	53-84-9	Trace
with 3-(aminocarbonyl)-1betaD-ribofuranosylpyridinium,		
inner salt	7047.04.0	T
Hydrogen chloride	7647-01-0	Trace
Manganese sulfate monohydrate	10034-96-5	Trace
Cysteine hydrochloride, L-(+)-, monohydrate	7048-04-6	Trace
Tryptic Soy Broth	NA 04407.04.4	2.19
Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis-,	34487-61-1	Trace
S,S-dioxide, monosodium salt		

Section 4 - First Aid Measures

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

Self-Protection of the First Aider No special precautions required.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

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Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 - Accidental Release Measures

Emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Clean-up methods - small spillage

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Clean-up methods - large spillage

Typically only supplied is small quantiites as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Exposure limits

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)] Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

ACGIH - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

DE - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

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Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Vitamin B12				STEL: 0.3 mg/m³ 15 min TWA: 0.1 mg/m³ 8 hr Resp. Sens. STEL: 15 mg/m³ 15 min	TWA: 2 mg/m³ (8 Stunden). MAK Höhepunkt: 2 mg/m³ Haut
				TWA: 5 mg/m ³ 8 hr Skin	
Iron(III) nitrate nonahydrate	TWA: 1 mg/m ³		TWA: 1 mg/m ³	STEL: 2 mg/m³ 15 min TWA: 1 mg/m³ 8 hr	
Hydrogen chloride		Ceiling: 5 ppm Ceiling: 7.5 mg/m³	Ceiling: 2 ppm	STEL: 5 ppm 15 min STEL: 8 mg/m³ 15 min TWA: 1 ppm 8 hr TWA: 2 mg/m³ 8 hr	TWA: 2 ppm (8 Stunden). AGW - exposure factor 2 TWA: 3 mg/m³ (8 Stunden). AGW - exposure factor 2 TWA: 2 ppm (8 Stunden). MAK TWA: 3.0 mg/m³ (8 Stunden). MAK Höhepunkt: 4 ppm Höhepunkt: 6 mg/m³
Manganese sulfate monohydrate	TWA: 1 mg/m³		TWA: 0.02 mg/m ³ TWA: 0.1 mg/m ³	STEL: 0.6 mg/m ³ 15 min STEL: 0.15 mg/m ³ 15 min TWA: 0.2 mg/m ³ 8 hr TWA: 0.05 mg/m ³ 8 hr	TWA: 0.2 mg/m³ (8 Stunden). AGW - exposure factor 8 TWA: 0.02 mg/m³ (8 Stunden). AGW - exposure factor 8 TWA: 0.2 mg/m³ (8 Stunden). MAK TWA: 0.02 mg/m³ (8 Stunden). MAK Höhepunkt: 1.6 mg/m³ Höhepunkt: 0.16 mg/m³

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Exposure Controls Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Disposable gloves	See manufacturers	-	AS/NZS 2161	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection

Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the weaver respiratory protective equipment

other symptoms are experienced. To protect the wearer, respiratory protective equipment

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must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

Method - No information available

(Air = 1.0)

and maintenance of repiratory protective devices

Recommended Filter type: Particle filter (or AUS/NZ equivalent)

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Physical State Solid Gel Consistency

Odor
Odor Threshold
PH
No data available
No information available
No information available
No information available
No data available
No data available
No data available
No information available
No information available

Flash Point No information available

Evaporation RateNo data availableFlammability (solid,gas)No information availableExplosion LimitsNo data available

Vapor PressureNo data availableVapor DensityNo data available

Vapor Density
Specific Gravity / Density
Bulk Density
Water Solubility
No data available
No data available
No data available
No information available

Solubility in other solvents

No information available

Partition Coefficient (n-octanol/water)

Componentlog PowCalcium chloride, dihydrate0.05Urea-1.73Penicillin G potassium1.83Vitamin B123.57Adenine (6-Aminopurine)-0.1Thiazolium,-3.04

3-[(4-amino-2-methyl-5-pyrimidinyl)met hyl]-5-(2-hydroxyethyl)-4-methylchloride, monohydrochloride

Adenosine 5'-(trihydrogen -4 diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1-.beta.-D-ribofuran

osylpyridinium, inner salt

Autoignition Temperature

Decomposition Temperature

Viscosity

No data available

No data available

No data available

Explosive PropertiesOxidizing Properties
No information available
No information available

Other information

VOC Content(%) 0.08

Section 10 - Stability and Reactivity

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Reactivity None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products, Excess heat, Avoid dust formation.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization Hazardous polymerization does not occur.

Section 11 - Toxicological Information

Information on Toxicological Effects

Product Information

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Agar	LD50 = 11 g/kg (Rat)		
Urea	LD50 = 8471 mg/kg (Rat)		
Penicillin G potassium	LD50 = 8900 mg/kg (Rat)		
Glucose	25.8 g/kg (Rat)		
Amphotericin B	LD50 > 5 g/kg (Rat)		
Adenine (6-Aminopurine)	LD50 = 227 mg/kg (Rat)		
p-Aminobenzoic acid	>6 g/kg (Rat)		
Iron(III) nitrate nonahydrate	LD50 = 3250 mg/kg (Rat)		
Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]- 5-(2-hydroxyethyl)-4-methyl- chloride, monohydrochloride	LD50 = 3710 mg/kg (Rat)		
Hydrogen chloride	LD50 238 - 277 mg/kg (Rat)	LD50 > 5010 mg/kg (Rabbit)	LC50 = 1.68 mg/L (Rat) 1 h

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

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(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and No information available delayed

Section 12 - Ecological Information

Ecotoxicity effects

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component Freshwater Fish Water Flea Freshwater Algae Microtox Lepomis macrochirus: EC50: 3005 mg/L/48h Calcium chloride, dihydrate LC50: 10650 mg/L/96h EC50: = 3910 mg/L, 48hUrea LC50: 16200 - 18300 = 23914 mg/L EC50 mg/L, 96h (Poecilia Static (Daphnia magna) Photobacterium reticulata) phosphoreum 5 min Penicillin G potassium LC50: > 500 mg/L, 96h EC50: > 1000 mg/L, 48h static (Leuciscus idus (Daphnia magna) melanotus) p-Aminobenzoic acid = 27.4 mg/L EC50 Photobacterium phosphoreum 30 min 15 °C Thiazolium, LC50 >100 mg/L/96h EC50 >100 mg/L/48h 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methyl- chloride, monohydrochloride

Persistence and Degradability
Bioaccumulative Potential
No information available
No information available

Component	log Pow	Bioconcentration factor (BCF)
Calcium chloride, dihydrate	0.05	No data available
Urea	-1.73	<10 dimensionless
Penicillin G potassium	1.83	No data available
Vitamin B12	3.57	No data available
Adenine (6-Aminopurine)	-0.1	No data available
Thiazolium,	-3.04	No data available
3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-		
5-(2-hydroxyethyl)-4-methyl- chloride,		
monohydrochloride		
Adenosine 5'-(trihydrogen diphosphate),	-4	No data available
P'.fwdarw.5'-ester with		
3-(aminocarbonyl)-1betaD-ribofuranosyl		
pyridinium, inner salt		

Mobility

No information available.

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

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Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable regulations.

Contaminated Packaging Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use

empty containers.

Other Information Chemical wastes should be disposed through a licensed commercial waste collection

service.

Section 14 - Transport Information

IMDG/IMO Not regulated

ADG Not regulated

Component	Hazchem Code
Iron(III) nitrate nonahydrate	2X
7782-61-8 (Trace)	
Hydrogen chloride	2RE
7647-01-0 (Trace)	2R

IATA Not regulated

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National Regulations Australia

See section 8 for national exposure control parameters.

Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

Component	Standard for the Uniform Scheduling of Medicines and Poisons
Amphotericin B - 1397-89-3	Schedule 4 listed - present
Iron(III) nitrate nonahydrate - 7782-61-8	Schedule 2 listed
	Schedule 4 listed - in injectable preparations for human use
	Schedule 5 listed - for the treatment of animals except up to 1% of Iron oxides when present as an
	excipient;in preparations for injection except in preparations containing <=0.1% of Iron
	Schedule 5 listed - for the treatment of animals except up to 1% of Iron oxides when present as an
	excipient;in other preparations except in liquid or gel preparations containing <=0.1% of Iron, or in animal feeds or feed premixes
	Schedule 5 listed - for use as agricultural chemicals except in preparations containing <=4% of Iron
	Schedule 6 listed - except up to 1% of Iron oxides when present as an excipient. For the treatment of
	animals except: when included in Schedule 5, in liquid or gel preparations containing <=0.1% of Iron,
	or in animal feeds or feed premixes

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Hydrogen chloride - 7647-01-0	Schedule 5 listed - except its salts and derivatives;in preparations except: in preparations containing
	<=0.5% of Hydrochloric acid, or for therapeutic use
	Schedule 6 listed - except its salts and derivatives; except: when included in Schedule 5, in
	preparations for therapeutic use, or in preparations containing <=0.5% of Hydrochloric acid

Australian Industrial Chemicals Introduction Scheme (AICIS)

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Water - 7732-18-5	Present	-
Calcium chloride, dihydrate - 10035-04-8	Present	-
Agar - 9002-18-0	Present	-
Yeast, ext 8013-01-2	Present	-
Urea - 57-13-6	Present	-
Glucose - 50-99-7	Present	-
Amphotericin B - 1397-89-3	Present	-
Vitamin B12 - 68-19-9	Present	-
Adenine (6-Aminopurine) - 73-24-5	Present	-
6H-Purin-6-one, 2-amino-1,7-dihydro-, monohydrochloride - 635-39-2	Present	-
p-Aminobenzoic acid - 150-13-0	Present	•
Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]- 4-methyl-5-(4,6,6-trihydroxy-3,5-dioxa-4,6-diphosphahex-1-yl)-, chloride, P,P'-dioxide - 154-87-0	Present	-
Iron(III) nitrate nonahydrate - 7782-61-8	Present	-
Thiazolium, 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]- 5-(2-hydroxyethyl)-4-methyl- chloride, monohydrochloride - 67-03-8	Present	-
Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1betaD-ribofuranosyl pyridinium, inner salt - 53-84-9	Present	<u>-</u>
Hydrogen chloride - 7647-01-0	Present	-
Manganese sulfate monohydrate - 10034-96-5	Present	-
Cysteine hydrochloride, L-(+)-, monohydrate - 7048-04-6	Present	-

Australian - Illicit Drug Precursors/Reagents Substance List

This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. Verify requirements related to using, handling and storing these substances.

Chemicals of Security Concern

This product contains one or more substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

Component	Australian - Illicit Drug	Chemicals of Security Concern
	Precursors/Reagents Substance List	
Hydrogen chloride - 7647-01-0	Category 3	Listed in Appendix A

Legend

Category 3 - Chemicals and apparatus that may be used in the illicit production of drugs. Purchases from this list should alert companies or organizations to seek further indicators of any suspicious orders or enquiries. No official reporting is required for items on this list unless considered warranted

Chemicals of Security Concern - for further information see http://www.chemicalsecurity.gov.au/securityconcerns

National pollutant inventory Subject to reporting requirements

Component	National pollutant inventory
Hydrogen chloride - 7647-01-0	10 tonne/yr. Threshold category 1

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400 tonne/yr. Threshold category 2a
1 tonne/h. Threshold category 2a
2000 tonne/yr. Threshold category 2b
60000 MWH. Threshold category 2b
20 MW. Threshold category 2b

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

International Inventories

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	ENCS	ISHL	IECSC	KECL
Water	Х	Х	231-791-2	-	Х	Х	-	Х	Х		Х	KE-35400
Calcium chloride, dihydrate	Х	Х	-	-	-	-	-	Х	Х	Х	Х	-
Agar	Х	Х	232-658-1	-	Х	Х	-	Х	-		Х	KE-00275
Yeast, ext.	Х	Х	232-387-9	-	Х	Х	-	Х	-		Х	KE-05-1355
Urea	Х	Х	200-315-5	-	Х	Х	-	Х	Х	Х	Х	KE-35144
Penicillin G potassium	-	Х	204-038-0	-	Х	Х	-	Х	Х		-	KE-11721
Glucose	Х	Х	200-075-1	-	Х	Х	-	Х	Х	Х	Х	KE-17727
Amphotericin B	X	Х	215-742-2	-	-	-	-	Х	Х		Х	-
Vitamin B12	Х	Х	200-680-0	-	Х	Х	-	Х	-	Х	Х	KE-11218
Adenine (6-Aminopurine)	Х	Х	200-796-1	-	Х	Х	-	Х	Х	Х	Х	KE-29916
6H-Purin-6-one, 2-amino-1,7-dihydro-, monohydrochloride	Х	Х	211-235-5	-	Х	-	Х	1	-		Х	-
p-Aminobenzoic acid	X	X	205-753-0	-	X	Х	-	Х	Х	X	X	KE-01199
Thiazolium, 3-[(4-amino-2-methyl-5 -pyrimidinyl)methyl]-4- methyl-5-(4,6,6-trihydr oxy-3,5-dioxa-4,6-diph osphahex-1-yl)-, chloride, P,P'-dioxide		Х	205-836-1	-	X	-	X	1	-		X	KE-01484
Iron(III) nitrate nonahydrate	Х	Х	-	-	-	-	-	Х	Х		Х	-
Thiazolium, 3-[(4-amino-2-methyl-5pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-met hyl- chloride, monohydrochloride	X	X	200-641-8		Х	X	-	Х	X	X	X	KE-01482
Adenosine 5'-(trihydrogen diphosphate), P'.fwdarw.5'-ester with 3-(aminocarbonyl)-1b etaD-ribofuranosylpyr idinium, inner salt	Х	Х	200-184-4	-	Х	Х	-	-	-		Х	KE-25879
Hydrogen chloride	Χ	X	231-595-7	-	X	Х	-	Х	Х	Χ	X	KE-20189
Manganese sulfate monohydrate	Х	X	-	-	-	-	-	Х	Х	Х	Х	-
Cysteine hydrochloride, L-(+)-, monohydrate	Х	Х	-	-	-	-	-	Х	Х		Х	KE-01430
Phenol, 4,4'-(3H-2,1-benzoxath iol-3-ylidene)bis-, S,S-dioxide, monosodium salt	-	Х	252-057-8	-	Х	Х	-	Х	-		Х	KE-02749

Legend: X - Listed. '-' - Not Listed. XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the

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TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B). KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Basel convention on the control of transboundary movements of hazardous wastes and their dispoal

Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

Component	Basel Convention (Hazardous Waste)	Australian Hazardous Waste Act - Categories of Wastes to Be Controlled		
Hydrogen chloride - 7647-01-0	Annex I - Y34	Y34 solid or solution		

Component	CAS No	OECD HPV	Restriction of Hazardous	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -
				Qualifying Quantities	
				for Major Accident	for Safety Report
				Notification	Requirements
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Calcium chloride, dihydrate	10035-04-8	Not applicable	Not applicable	Not applicable	Not applicable
Agar	9002-18-0	Not applicable	Not applicable	Not applicable	Not applicable
Yeast, ext.	8013-01-2	Not applicable	Not applicable	Not applicable	Not applicable
HORSE SERUM	RR-36477-2	Not applicable	Not applicable	Not applicable	Not applicable
Urea	57-13-6	Listed	Not applicable	Not applicable	Not applicable
Penicillin G potassium	113-98-4	Listed	Not applicable	Not applicable	Not applicable
Glucose	50-99-7	Listed	Not applicable	Not applicable	Not applicable
Amphotericin B	1397-89-3	Not applicable	Not applicable	Not applicable	Not applicable
Vitamin B12	68-19-9	Not applicable	Not applicable	Not applicable	Not applicable
L-Glutamine	32640-56-5	Not applicable	Not applicable	Not applicable	Not applicable
Adenine (6-Aminopurine)	73-24-5	Not applicable	Not applicable	Not applicable	Not applicable
6H-Purin-6-one,	635-39-2	Not applicable	Not applicable	Not applicable	Not applicable
2-amino-1,7-dihydro-,					
monohydrochloride					
p-Aminobenzoic acid	150-13-0	Not applicable	Not applicable	Not applicable	Not applicable
Thiazolium,	154-87-0	Not applicable	Not applicable	Not applicable	Not applicable
3-[(4-amino-2-methyl-5-pyrimi					
dinyl)methyl]-4-methyl-5-(4,6,					
6-trihydroxy-3,5-dioxa-4,6-dip					
hosphahex-1-yl)-, chloride,					
P,P'-dioxide Iron(III) nitrate nonahydrate	7782-61-8	Not applicable	Not applicable	Not applicable	Not applicable
Thiazolium.	67-03-8	Not applicable	Not applicable	Not applicable	Not applicable
3-[(4-amino-2-methyl-5-pyrimi	07-03-0	Not applicable	Not applicable	Not applicable	Not applicable
dinyl)methyl]-5-(2-hydroxyethy					
l)-4-methyl- chloride,					
monohydrochloride					
Adenosine 5'-(trihydrogen	53-84-9	Not applicable	Not applicable	Not applicable	Not applicable
diphosphate),					,
P'.fwdarw.5'-ester with					
3-(aminocarbonyl)-1betaD-r					
ibofuranosylpyridinium, inner					
salt					
Hydrogen chloride	7647-01-0	Listed	Not applicable	25 tonne	250 tonne
Manganese sulfate	10034-96-5	Not applicable	Not applicable	Not applicable	Not applicable
monohydrate					
Cysteine hydrochloride, L-(+)-,	7048-04-6	Not applicable	Not applicable	Not applicable	Not applicable

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monohydrate					
Tryptic Soy Broth	NA	Not applicable	Not applicable	Not applicable	Not applicable
Phenol, 4,4'-(3H-2,1-benzoxathiol-3-yli dene)bis-, S,S-dioxide, monosodium salt	34487-61-1	Not applicable	Not applicable	Not applicable	Not applicable

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Calcium chloride, dihydrate	-	Use restricted. See item 75.	-
		(see link for restriction details)	
p-Aminobenzoic acid	-	Use restricted. See item 75.	-
		(see link for restriction details)	
Hydrogen chloride	-	Use restricted. See item 75.	-
		(see link for restriction details)	

https://echa.europa.eu/substances-restricted-under-reach

Section 16 - Other Information

Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

NZS 5433:2020 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water **vPvB** - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

NZIoC - New Zealand Inventory of Chemicals

EINECS/ELINCS - European Inventory of Existing Commercial Chemical

Substances/EU List of Notified Chemical Substances
ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

OECD - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50%
ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment

NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards
Health Hazards
Calculation method
Environmental hazards
Cn basis of test data
Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date 05-Jul-2023 Revision Summary 05-Jul-2023 Not applicable.

This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of

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Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

Disclaimer

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End of Safety Data Sheet

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