

Cell Viability Incorporated

Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Product Overview

Package Name	Cell Viability Reagent Pack, 4-Pack and Single Pack
Part Number	2400101 – 4-Pack, 2400102 – Single Pack
Recommended Use	For Research use ONLY
Document Revision	29 September 2021

Contents of Reagent Kit and SDS

Cleaning Agent - Enzymatic Cleaner
Buffer Solution
Trypan Blue 0.4%
Disinfectant




Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Section 1	
Identification of the substance/mixture and of the company/undertaking	
1.1 Product Identifier	Enzymatic Cleaner
Synonyms	Enzymatic Cleaner
CAS No.	Proprietary Mixture
Remarks	SDS according to Art. 31 of Regulation (EC) 1907/2006.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Use of the substance	Laboratory Chemicals
Uses advised against	None
1.3 Details of the supplier of the safety data sheet	
Manufacturer:	Clinical Diagnostic Solutions, Inc. 1800 NW 65th Avenue Plantation FL, 33313, USA Phone No: +1 954 791 1773 Fax No: +1 954 791 7118
Reseller:	Cell Viability Incorporated 8770 Sunset Drive, #403 Miami, Florida 33173 www.CellViability.com Sales@CellViability.com 1-800-618-7660
1.4 Emergency Telephone Number	
Emergency Telephone Number	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

Section 2	
Hazards Identification	
2.1 Classification of the substance or mixture	
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Carcinogenicity (Category 1B), H350	
Physical Hazards	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
2.2 Label elements	
REGULATION (EC) No 1272/2008	

Hazard Pictograms	
Signal word	Danger
Hazard statements	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P285 In case of inadequate ventilation wear respiratory protection. P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
2.3 Other hazards	Hazards not otherwise classified (HNOC) or not covered by GHS - none.

Section 3	Composition/information on ingredients
3.1 Substance	Not applicable
3.2 Mixture	Proprietary Mixture

Section 4	First aid measures
4.1 Description of first aid measures	<p>General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.</p> <p>If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.</p> <p>In case of skin contact Wash off with soap and plenty of water. Consult a physician.</p> <p>In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.</p> <p>If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p> <p>Most important symptoms and effects, both acute and delayed None</p> <p>Indication of any immediate medical attention and special treatment needed No data available</p>
4.2 Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling
4.3 Indication of any immediate medical attention and special treatment needed	No data available

Section 5	Firefighting measures
5.1 Extinguishing media	Dry chemical, carbon dioxide (CO2), water spray or regular foam.

- Caution: CO₂ will displace air in confined spaces and may cause an oxygen-deficient atmosphere.

5.2 Special hazards arising from the substance or mixture

There are no unique chemical or reactivity hazards that would impact firefighting decisions due to the chemicals in this product.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing..

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6

Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

6.2. Environmental precautions

No data available

6.3. Methods and materials for containment and cleaning up

Block small volumes of spilled or spattered product with paper towels or similar materials.

- Contain larger spills by placing absorbants around the outside edges of the spill. Absorb with any material Suitable for water-based liquids - e.g. paper towels, universal sorbents, sand, diatomite, sawdust, etc.

Clean the affected area. Suitable cleaners are:

- Detergent or similar cleansing agent.

Dispose of spilled and contaminated material in accordance with Federal, State, and Local regulations. See Section 13 for information that may impact disposal of materials contaminated with this product.

6.4. Reference to other sections

Dispose of spilled and contaminated material in accordance with Federal, State, and Local regulations. See Section 13 for information that may impact disposal of materials contaminated with this product

Section 7

Handling and storage

7.1. Precautions for safe handling

Use personal protective equipment required by the Laboratory.

7.2. Conditions for safe storage, including any incompatibilities

Storage requirements: Store only in the original container. Store in a cool (5 - 35 °C), dry place away from away from heat and direct sunlight.

7.3. Specific end use(s)

Further information about storage conditions: Protect from heat and direct sunlight.

Section 8

Exposure controls/personal protection

8.1. Control parameters

Substance name	Concentration	CAS No	Occupational exposure limits
Subtilisin	< 20%	9014-01-01	ACGIH TLV Ceiling: 0.00006 mg/m ³ Ceiling as crystalline active enzyme. DNEL (Derived No Effect Level) Dermal Acute Local = 0.2% in mixture (w/w). DMEL (Derived Minimal Effect Level) Inhalation Long Term Local and Systemic = 15 ng/m ³

8.2. Exposure controls

Personal protective equipment

Always maintain good housekeeping and follow general precautionary measures. Do not eat, drink or store food and beverages in areas where chemicals or specimens are used. Wash hands before breaks, after handling reagents and specimens, and at the end of the work shift.

· Breathing equipment:

Normal use and storage of product - respiratory protection is not necessary if room is well ventilated.

Small-volume spills (e.g. small enough to clean up with a paper towel or small sorbent pad) - respiratory protection should not be necessary if room is well ventilated. Hazardous Materials Emergencies or Firefighting - use NIOSH/NFPA-approved respiratory protection.

· Hand protection:

Wear water-resistant gloves if hand contact with the material is anticipated. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Material of gloves and breakthrough time of the glove material:

The glove material must be suitable for use in a clinical chemistry laboratory and have a measured breakthrough time of at least 30 minutes, such as those with a Class 2 protection index per EN374 (or equivalent standard applicable in your region). NOTE: This recommendation applies only to the product stated in this Safety Data Sheet. When dissolving in or mixing with other substances, contact the supplier of approved gloves.

· Eye protection:

Wear safety glasses or other protective eyewear. If splash potential exists, wear full face shield or goggles.

· Body protection:

Normal use: protect personal clothing from spatters and small spills. Wear a laboratory coat (or other protective clothing required by your institution). Larger spills (e.g. that can saturate cloth): wear appropriate water-repellant covering over clothing.

Section 9

Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value
Physical state	Liquid
Color	Colorless liquid
Odor	Odorless
pH-value at 20 °C (68 °F)	7.2
Melting point	Not determined
Boiling point	Not determined
Flash point	Not applicable
Flammability (solid, gas)	Non flammable
Auto igniting	Product is not self-igniting.
Danger of explosion	Product does not present an explosion hazard.
Vapor density	Not applicable
Density at 20 °C (68 °F)	1 g/mL
Solubility in water	Completely soluble

9.2. Other information
No additional data available.

Section 10 Stability and reactivity	
10.1. Reactivity	
No data available	
10.2. Chemical Stability	
The product is chemically stable under standard ambient conditions (room temperature)	
10.3. Possibility of hazardous reactions	
Reacts with strong acids and bases	
10.4. Conditions to avoid	
Sunlight, warmth, heat and fire.	
10.5. Incompatible materials	
Strong acids and bases.	
10.6. Hazardous decomposition products	
No dangerous decomposition products known	

Section 11 Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity No data available	
Dermal No data available	

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

11.6. Additional Information

None

Section 12

Ecological information

12.1. Toxicity

No further relevant information available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Additional Ecological Information

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

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

· PBT: Not applicable

· vPvB: Not applicable

12.6. Other adverse effects

No data available

Section 13

Disposal considerations

13.1. Waste treatment methods

Recommendation for disposal of unused product:

Dispose in accordance with federal, state and local regulations.

Recommendation for disposal of packaging:

Non-contaminated packaging may be used for recycling. Refer to applicable local regulations and institutional policies.

For disposal of contaminated packaging, refer to applicable local regulations and institutional policies.

· Recommended cleansing agent: Water with cleansing agents, if necessary.

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

Section 14

Transport information

14.1. Waste treatment methods

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

Section 15

Regulatory information

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

· SARA 302/304 (40CFR355.30 / 40CFR355.40):

The product does not contain listed substances.

· SARA 313 (40CFR372.65):

The product does not contain listed substances.

SARA 311/312 Hazards

No SARA Hazards

· California Proposition 65 (USA):

· Chemicals known to cause cancer:

WARNING This product contains a chemical known in the State of California to cause cancer

1,4-Dioxane, Acetaldehyde and Ethylene Oxide

· Chemicals known to cause female reproductive toxicity:

None of the ingredients is listed.

· Chemicals known to cause male reproductive toxicity:

None of the ingredients is listed.

· Chemicals known to cause developmental reproductive toxicity:

None of the ingredients is listed.

Pennsylvania Right to Know Components

Tris (hydroxymethyl) aminomethane CAS 77-86-1
Sodium Formate CAS 141-53-7
Sodium Chloride CAS 7647-14-5
Subtilisin CAS 9014-01-01
Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one
and 2-methyl-2H-isothiazol-3-one (3:1) CAS 55965-84-9

New Jersey Right to Know Components
Tris (hydroxymethyl) aminomethane CAS 77-86-1
Sodium Formate CAS 141-53-7
Sodium Chloride CAS 7647-14-5
Subtilisin CAS 9014-01-01
Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one
and 2-methyl-2H-isothiazol-3-one (3:1) CAS 55965-84-9
Massachusetts Right to Know Components
None of the ingredients is listed.

Section 16

Other information


Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Cell Viability Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Section 1 Identification of the substance/mixture and of the company/undertaking	
1.1 Product Identifier	Isopropyl alcohol, 70% in water
Synonyms	IPA; Isopropanol (70% aqueous solution)
CAS No.	67-63-0
Remarks	SDS according to Art. 31 of Regulation (EC) 1907/2006.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Use of the substance	Laboratory Chemicals
Uses advised against	None
1.3 Details of the supplier of the safety data sheet	
Manufacturer:	Cell Viability Incorporated 8770 Sunset Drive, #403 Miami, Florida 33173 www.CellViability.com Sales@CellViability.com 1-800-618-7660
1.4 Emergency Telephone Number	
Emergency Telephone Number	1-800-618-7660

Section 2 Hazards Identification	
2.1 Classification of the substance or mixture	
	REGULATION (EC) No 1272/2008 Flammable liquids Category 2 H225 Highly flammable liquid and vapour.
Physical Hazards	Eye irritation Category 2 H319 Causes serious eye irritation. Specific target organ toxicity - single exposure Category 3 - Central nervous system. H336 May cause drowsiness or dizziness.
2.2 Label elements	
REGULATION (EC) No 1272/2008	
Hazard Pictograms	
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take precautionary measures against static discharge. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ eye protection/ face protection.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 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.

Hazardous components which must be listed on label

Isopropanol or Propan-2-ol

2.3 Other hazards

Has a degreasing effect on the skin.

Section 3

Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

Component	CAS-No Index-No REACH Reg No EC-No.	Classification 1272/2008	Weight %
Isopropyl alcohol	67-63-0 603-117-00-0 01-2119457558-25 200-661-7	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 50 % - <= 100 %

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4

First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

Remove to fresh air. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.

Eye contact:

Rinse thoroughly with plenty of water, also under the eyelids. Protect unharmed eye. Remove contact lenses. Call a physician immediately.

Ingestion:

Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

See Section 11 for more detailed information on health effects and symptoms.

Section 5

Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol-resistant foam

Carbon dioxide (CO₂)

Dry chemical

Cool closed containers exposed to fire with water spray.

Extinguishing media which shall not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Flammable.

Vapors may form explosive mixtures with air.

Vapors are heavier than air and may spread along floors.

Vapors may travel to areas away from work site before igniting/flashing back to vapor source.

In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide

Carbon dioxide (CO₂)

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Section 6

Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water courses.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

Section 7 Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:
Exhaust ventilation at the object is necessary. Use explosion-proof equipment.

Advice on protection against fire and explosion:
Take measures to prevent the buildup of electrostatic charge. Use only in explosion-proof areas. The heavy vapors can overcome a considerable distance up to the source of ignition. Keep away from sources of ignition - No smoking.

Hygiene measures:
When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Remove and wash contaminated clothing before re-use. Do not breathe dust or spray mist. Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:
Store in original container. Keep container tightly closed and in a well-ventilated place. Keep away from direct sunlight

7.3. Specific end use(s)

no additional data available

Section 8 Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Component	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
Isopropyl alcohol	EH40 WEL STEL	1.250 mg/m3 500 ppm		
Isopropyl alcohol	EH40 WEL TWA	999 mg/m3 400 ppm		

STEL - Short term exposure limit
TWA - Time weighted average

DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Isopropyl alcohol	Consumers / Long-term systemic effects		26mg/kg bw/d	Ingestion	
Isopropyl alcohol	Consumers / Long-term systemic effects		319 mg/kg	Skin contact	
Isopropyl alcohol	Workers / Long-term systemic effects		888 mg/kg	Skin contact	
Isopropyl alcohol	Consumers / Long-term systemic effects		89 mg/m ³	Inhalation	
Isopropyl alcohol	Workers / Long-term systemic effects		500 mg/m ³	Inhalation	

Component	Environmental compartment / Value	Remarks
Isopropyl alcohol	Fresh water: 140,9 mg/l	
Isopropyl alcohol	Marine water: 140,9 mg/l	
Isopropyl alcohol	Fresh water sediment: 552 mg/kg	
Isopropyl alcohol	Marine sediment: 552 mg/kg	
Isopropyl alcohol	Soil: 28 mg/kg	
Isopropyl alcohol	Sewage treatment plant: 2251 mg/l	

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards: respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Do not breathe vapors or spray mist.

Engineering measures

Use with local exhaust ventilation.

Prevent vapor buildup by providing adequate ventilation during and after use.

Personal protective equipment

Respiratory protection:

In the case of vapor formation use a respirator with an approved filter.

Hand protection:

Glove material: butyl-rubber

Break through time: > 480 min

Glove thickness: 0,7 mm

Butoject® 898

Gloves must be inspected prior to use.

Replace when worn.

Remarks: Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124

Eichenzell, Vertrieb@kcl.de

Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g. Temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardized conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety goggles

Skin and body protection:

Flame retardant antistatic protective clothing.

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

Section 9

Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	liquid
Color:	colorless
Odor:	alcohol-like
Molecular weight:	60,11 g/mol
Boiling point/boiling range:	ca. 81 - 83 °C
Flash point:	22 °C, Method: closed cup
Density:	0,858 g/cm ³ at 20 °C
Water solubility:	completely miscible
Solubility in other solvents:	Soluble in most organic solvents
Partition coefficient: n-octanol/water:	log Pow 0,05, at: 25 °C.

9.2. Other information

No additional data available.

Section 10	Stability and reactivity
10.1. Reactivity	
Stable under recommended storage conditions.	
10.2. Chemical Stability	
No decomposition if used as directed.	
10.3. Possibility of hazardous reactions	
Vapors may form explosive mixture with air. Hazardous polymerization does not occur.	
10.4. Conditions to avoid	
Heat, flames and sparks. Keep away from direct sunlight	
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition products	
In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO ₂)	

Section 11	Toxicological information
11.1. Information on toxicological effects	
<p>Acute oral toxicity: LD50 Species: Rat Value: 5.840 mg/kg Method: OECD Test Guideline 401</p> <p>Acute dermal toxicity: no data available</p> <p>Acute inhalation toxicity: LC50 Species: Rat Value: > 10000 ppm Exposure time: 6 h Method: OECD Test Guideline 403</p> <p>Skin irritation: Species: Rabbit Result: slight irritation According to the classification criteria of the European Union, the product is not considered as being a skin irritant.</p> <p>Eye irritation: Species: Rabbit Result: irritating Method: OECD Test Guideline 405</p> <p>Respiratory or skin sensitisation: Buehler Test</p>	

Species: Guinea pig
Result: non-sensitizing
Method: OECD Test Guideline 406

Carcinogenicity:
Note: Not classified due to data which are conclusive although insufficient for classification.

Germ cell mutagenicity:
Test Method: In vitro mammalian cell gene mutation test
Cell type: Chinese Hamster Ovary Cells
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 476

Test Method: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

Test Method: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative

Aspiration hazard:
no data available

Other information:
Solvent vapors have a narcotic effect if inhaled in high concentrations.
The toxicological data are those of the pure product.

Section 12

Ecological information

12.1. Toxicity

Toxicity to fish:
LC50
flow-through test
Species: Pimephales promelas (fathead minnow)
Value: 9.640 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to aquatic plants:
Not classified due to data which are conclusive although insufficient for classification.

Toxicity to Microorganisms:
static test
Species: Pseudomonas putida
Value: 1.050 mg/l
Exposure time: 16 h

Method: DIN 38412

Toxicity to aquatic invertebrates:

EC50

static test

Species: Daphnia magna (Water flea)

Value: > 10.000 mg/l

Exposure time: 24 h

Method: OECD Test Guideline 202

12.2. Persistence and degradability

Biodegradability: Readily biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Ecological data refers to the main components.

Section 13

Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

Section 14

Transport information

14.1. Waste treatment methods

ADR/RID

UN Number: 1219

Description of the goods: ISOPROPANOL

Class: 3

Packaging group:II

Classification Code:F1

Hazard Identification Number:33

ADR/RID-Labels:3

Environmentally hazardous:no

IATA

UN Number:1219
 Description of the goods:Isopropanol
 Class:3
 Packaging group: II
 Hazard Labels:3

IMDG
 UN Number:1219
 Description of the goods:ISOPROPANOL
 Class:3
 Packaging group:II
 Hazard Labels:3
 EmS Number:F-E, S-D
 Marine pollutant: :no

Section 15 Regulatory information

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

Basis	Value
Directive 2012/18/EC	Amount 1: 5.000.000 kg
Listed in Regulation :	Amount 2: 50.000.000 kg
P5c: FLAMMABLE	
LIQUIDS	

Poison Control Center:

Country	Phone Number	Country	Phone Number
Austria	+4314064343	Liechtenstein	no data available
Belgium	070 245245	Lithuania	+370532362052
Bulgaria	(+)35929154233	Luxembourg	070245245; (+352)80002-5500
Croatia	(+3851)23-48-342	Malta	no data available
Cyprus	no data available	Netherlands	030-2748888
Czech Republic	+420224919293; +420224915402	Norway	22591300
Denmark	82121212	Poland	no data available
Estonia	16662; (+372)6269390	Portugal	808250143
Finland	9471977	Romania	no data available
France	+33(0)145425959	Slovakia (NTIC)	+421 2 54 774 166
Greece	no data available	Slovenia	no data available
Hungary	(+36-80)20 1-199	Spain	+34915620 420
Iceland	5432222	Sweden	112 (begär Giftinforma tion);+4610 4566786
Ireland	+353(1)80 92166	Switzerlan d	145
Latavia	+37167042 473		
Italy	+39 064990614 0	United Kingdom	no data available
Germany	Bonn : 0228/19240	Berlin : 030/19240	

Erfurt : 0361/730730
Freiburg : 0761/19240
Göttingen : 0551/19240
Homburg : 06841/19240
Mainz : 06131/19240
Munich : 089/19240

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

Section 16

Other information

Text of H-statements referred to under heading 3
Propan-2-ol: H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Further information

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level


PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Section 1	
Identification of the substance/mixture and of the company/undertaking	
1.1 Product Identifier	Trypan Blue Solution, 0.4%
Synonyms	Trypan Blue
CAS No.	72-57-1
Remarks	SDS according to Art. 31 of Regulation (EC) 1907/2006.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Use of the substance	Laboratory Chemicals
Uses advised against	None
1.3 Details of the supplier of the safety data sheet	
Manufacturer:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES Telephone : +1 314 771-5765 Fax : +1 800 325-5052
Reseller:	Cell Viability Incorporated 8770 Sunset Drive, #403 Miami, Florida 33173 www.CellViability.com Sales@CellViability.com 1-800-618-7660
1.4 Emergency Telephone Number	
Emergency Telephone Number	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

Section 2	
Hazards Identification	
2.1 Classification of the substance or mixture	
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Carcinogenicity (Category 1B), H350	
Physical Hazards	Eye irritation Category 2 H319 Causes serious eye irritation. Specific target organ toxicity - single exposure Category 3 - Central nervous system. H336 May cause drowsiness or dizziness.
2.2 Label elements	
REGULATION (EC) No 1272/2008	
Hazard Pictograms	
Signal word	Danger
Hazard statements	Hazard statement(s) H350 May cause cancer.

No data available

Section 5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing..

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4. Reference to other sections

For disposal see section 13.

Section 7 Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3. Specific end use(s)

no additional data available

Section 8

Exposure controls/personal protection

8.1. Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

protective clothing

Respiratory protection

Required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN

143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure
Do not let product enter drains.

Section 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

- a) Appearance Form - liquid
- b) Odor - No data available
- c) Odor Threshold - No data available
- d) pH - No data available
- e) Melting point/freezing point: No data available
- f) Initial boiling point and boiling range - No data available
- g) Flash point - No data available
- h) Evaporation rate - No data available
- i) Flammability (solid,gas) - No data available
- j) Upper/lower flammability or explosive limits - No data available
- k) Vapor pressure - No data available
- l) Vapor density - No data available
- m) Density - No data available Relative density No data available
- n) Water solubility - soluble
- o) Partition coefficient: n-octanol/water - No data available
- p) Autoignition temperature: Not applicable
- q) Decomposition temperature - No data available
- r) Viscosity - No data available
- s) Explosive properties - No data available
- t) Oxidizing properties - No data available

9.2. Other information

No additional data available.

Section 10 Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature)

10.3. Possibility of hazardous reactions

Violent reactions possible with: The generally known reaction partners of water

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

In the event of fire: see section 5

Section 11 Toxicological information

11.1. Information on toxicological effects

Mixture

Acute toxicity

Oral: No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Possible carcinogen.

IARC: 2B - Group 2B: Possibly carcinogenic to humans

(3,3'-dimethyl-4,4'-bis(5-amino-4-hydroxy-2,7-disulphonaphthyl-3-azo)-[1,1'-biphenyl] tetrasodium salt)

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.6. Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Other dangerous properties cannot be excluded.

This substance should be handled with particular care.

Liver - Irregularities - Based on Human Evidence

Components

3,3'-dimethyl-4,4'-bis(5-amino-4-hydroxy-2,7-disulphonaphthyl-3-azo)-[1,1'-biphenyl] tetrasodium salt

Acute toxicity

LD50 Oral - Rat - 6,200 mg/kg
 Remarks: (RTECS)
 Inhalation: No data available
 Dermal: No data available
 No data available
 Skin corrosion/irritation
 No data available
 Serious eye damage/eye irritation
 No data available
 Respiratory or skin sensitization
 No data available
 Germ cell mutagenicity
 Species: Rat
 Remarks: Unscheduled DNA synthesis
 Carcinogenicity
 Presumed to have carcinogenic potential for humans
 Reproductive toxicity
 Experiments have shown reproductive toxicity effects on laboratory animals.
 Specific target organ toxicity - single exposure
 No data available

Specific target organ toxicity - repeated exposure
 No data available
 Aspiration hazard
 No data available

Section 12	
Ecological information	
12.1. Toxicity	
<i>Mixture</i>	
<i>No data available</i>	
12.2. Persistence and degradability	
<i>No data available</i>	
12.3. Bioaccumulative potential	
<i>No data available</i>	
12.4. Mobility in soil	
<i>No data available</i>	
12.5. Results of PBT and vPvB assessment	
<i>PBT/vPvB assessment not available as chemical safety assessment not required/not conducted</i>	
12.6. Other adverse effects	
<i>No data available</i>	
<i>Components</i>	
<i>3,3'-dimethyl-4,4'-bis(5-amino-4-hydroxy-2,7-disulphonaphthyl-3-azo)-[1,1'-biphenyl] tetrasodium salt</i>	
<i>Toxicity to fish LC50 - Oryzias latipes - > 1,000 mg/l - 48 h</i>	

Section 13	
Disposal considerations	
13.1. Waste treatment methods	

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

Section 14**Transport information****14.1. Waste treatment methods**

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

Section 15**Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA 302 Components**

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

3,3'-dimethyl-4,4'-bis(5-amino-4-hydroxy-2,7-disulphonaphthyl-3-azo)-[1,1'-biphenyl] tetrasodium salt

CAS-No.

72-57-1

Revision Date

2007-07-01

SARA 311/312 Hazards

Section 16

Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Cell Viability Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Section 1	
Identification of the substance/mixture and of the company/undertaking	
1.1 Product Identifier	Buffer Solution
Synonyms	Water
CAS No.	7732-18-5
Remarks	SDS according to Art. 31 of Regulation (EC) 1907/2006.
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Use of the substance	Laboratory Chemicals
Uses advised against	None
1.3 Details of the supplier of the safety data sheet	
Manufacturer:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES Telephone : +1 314 771-5765 Fax : +1 800 325-5052
Reseller:	Cell Viability Incorporated 8770 Sunset Drive, #403 Miami, Florida 33173 www.CellViability.com Sales@CellViability.com 1-800-618-7660
1.4 Emergency Telephone Number	
Emergency Telephone Number	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

Section 2	
Hazards Identification	
2.1 Classification of the substance or mixture	
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Not a hazardous substance or mixture.	
Physical Hazards	Not a hazardous substance or mixture..
2.2 Label elements	
REGULATION (EC) No 1272/2008	
Hazard Pictograms	
Signal word	None
Hazard statements	Not a hazardous substance or mixture..
Precautionary statements	Not a hazardous substance or mixture..
2.3 Other hazards	Hazards not otherwise classified (HNOC) or not covered by GHS - none.

Section 3	
Composition/information on ingredients	
3.1 Substance	Water: H ₂ O
3.2 Mixture	H ₂ O Molecular weight : 18.02 g/mol CAS-No. : 7732-18-5 EC-No. : 231-791-2

Section 4	
First aid measures	
4.1 Description of first aid measures	
If inhaled	
If not breathing give artificial respiration	
4.2 Most important symptoms and effects, both acute and delayed	
The most important known symptoms and effects are described in the labelling	
4.3 Indication of any immediate medical attention and special treatment needed	
No data available	

Section 5	
Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media	
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
5.2 Special hazards arising from the substance or mixture	
No data available	
5.3 Advice for firefighters	
No data available	
5.4 Further information	
This product itself does not burn.	

Section 6	
Accidental release measures	
6.1. Personal precautions, protective equipment and emergency procedures	
For personal protection see section 8.	
6.2. Environmental precautions	
No data available	
6.3. Methods and materials for containment and cleaning up	
Wipe up with absorbent material (e.g. cloth, fleece).	
6.4. Reference to other sections	
For disposal see section 13.	

Section 7	
Handling and storage	
7.1. Precautions for safe handling	
For precautions see section 2.2.	
7.2. Conditions for safe storage, including any incompatibilities	

No special storage conditions required.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8

Exposure controls/personal protection

8.1. Control parameters

Handle in accordance with good industrial hygiene and safety practice.

8.2. Exposure controls

Personal protective equipment

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Respiratory protection

No special protective equipment required.

Control of environmental exposure

Prevent product from entering drains.

Section 9

Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance Form – liquid / Color colorless

b) Odor - No data available

c) Odor Threshold - No data available

d) pH - 6.0 - 8.0 at 25 °C (77 °F)

e) Melting point/freezing point- 0.0 °C (32.0 °F)

f) Initial boiling point and boiling range - 100 °C 212 °F - lit.

g) Flash point - Not applicable

h) Evaporation rate No data available

i) Flammability (solid, gas) - No data available

j) Upper/lower flammability or explosive limits - No data available

k) Vapour pressure - No data available

- l) Vapour density - No data available
- m) Relative density - 1.000 g/cm³ at 3.98 °C (39.16 °F)
- n) Water solubility - completely miscible
- o) Partition coefficient: n-octanol/water - No data available
- p) Auto-ignition temperature - No data available
- q) Decomposition temperature - No data available
- r) Viscosity - No data available
- s) Explosive properties - No data available
- t) Oxidizing properties - No data available

9.2. Other information

No additional data available.

Section 10

Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical Stability

The product is chemically stable under standard ambient conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

In the event of fire: see section 5

Section 11

Toxicological information

11.1. Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - > 90,000 mg/kg

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

11.6. Additional Information

No data available

Section 12

Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention.

Section 13

Disposal considerations

13.1. Waste treatment methods

Product

Taking into account local regulations the product may be disposed of as waste water after neutralisation.

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

Section 14

Transport information

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

no data available

Section 15

Regulatory information

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

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Section 16

Other information

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Cell Viability Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe

handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.