Vickers Laboratories Ltd - Safety Data Sheet

0312

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 3.0 Revision date: 06 November 2023 (Replaces revision 2.0 of 25 January 2023) Date printed: 30 November 2024

Section 1. Identification

1.1 Product Identifier 0312

Product Name PRESERVATION FLUID - (Thiel Venous Infusion)

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd

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(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 3

H226: Flammable liquid and vapour.

Skin corrosion/irritation, category 2

H315: Causes skin irritation.

Serious eye damage/irritation, category 1

H318: Causes serious eye damage.

Skin sensitization, category 1 H317: May cause an allergic skin reaction.

Germ cell mutagenicity, category 2 H341: Suspected of causing genetic defects.

Carcinogenicity, category 1B H350: May cause cancer.

Reproductive toxicity, category 1B H360: May damage fertility or the unborn child.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms









Hazard Statements

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

Precautionary Statements

Use personal protective equipment as required. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing mist/vapours/spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Ethanol	64-17-5	200-578-6	01-2119457610-43-XXXX	20%	Flam. Liq. 2,Eye Irrit. 2	
Ammonium nitrate	6484-52-2	229-347-8	01-2119490981-28-XXXX	<10%	Ox. Sol. 3,Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I)	
Formaldehyde	50-00-0	200-001-8	01-2119488953-20-XXXX	2.4%	Acute Tox. 3 (O), Acute Tox. 3 (D), Skin Corr. 1B, Acute Tox. 3 (I), Eye Dam. 1, Skin Sens. 1, Muta. 2, Carc. 1B	
Boric Acid	10043-35- 3	233-139-2	01-2119486683-25-XXXX	<1.5%	Repr. 1B	
Chlorocresol	59-50-7	200-431-6		<0.4%	Acute Tox. 4 (O), Acute Tox. 4 (D), Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1	
Morpholine	110-91-8	203-815-1	01-2119496057-30-XXXX	0.002%	Flam. Liq. 3,Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (D),Acute Tox. 4 (I)	

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eyes

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If Inhalation breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen Ingestion

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the

recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards Vapour-air mixtures are explosive.

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5.3 Advice for firefighters

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in

remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits					
			Long Term (8hr TWA)		Short Term 15min period)			
Ethanol	64-17-5	20%	1000.0 ppm	1920.0 mg/m-3	-	-		
Ammonium nitrate	6484-52-2	<10%	-	-	-	-		
Formaldehyde	50-00-0	2.4%	2.0 ppm	2.5 mg/m-3	2.0 ppm	2.5 mg/m-3		
Boric Acid	10043-35-3	<1.5%	-	-	-	-		
Chlorocresol	59-50-7	<0.4%	-	-	-	-		
Morpholine	110-91-8	0.002%	10.0 ppm	36.0 mg/m-3	20.0 ppm	72.0 mg/m-3		

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless to pale brown liquid.

Odour Characteristic.
pH Not applicable
Boiling Point Approx 86°C
Melting Point Approx 9.5°C
Flash Point 36°C (Closed cup)

Upper Flammable Limit 3.3 Lower Flammable Limit 12.2 Auto Ignition 336°C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Pressure Not applicable Relative Density Not available

Water Solubility Completely soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid

Hot surfaces, naked flames or other sources of ignition.

10.5 Incompatable Materials Bromine. Sodium hypochlorite, diethyl zinc, dialkylaluminium solutions, and phosphorous trioxide. Nitric acid,

hydrogen peroxide, sodium and chloroform and potassium tertiary butoxide. Lead perchlorate.

10.6 Hazardous Decomposition

Products

None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid will cause conjunctival irritation and corneal damage. High concentrations of vapour may be irritating

to the eyes.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis. May cause skin

sensitisation.

LD50 Skin Not available

Ingestion Ingestion will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.

LD50 Oral Not available

Inhalation Exposure to vapour concentrations above the occupational exposure limits may produce irritation of the eyes and

respiratory tract. High concentrations of vapour may produce central nervous system depression and

unconsciousness. Symptoms will be similar to those following ingestion.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity May cause cancer. Contains Formaldehyde. This has been extensively studied.

Mutagenicity Suspected of causing genetic defects.

Reproductive Effects Evidence of reproductive effects.

Section 12. Ecological

12.1 Toxicity Substantially biodegradable in water, biological oxygen demand (B.O.D.) 5 day 70%.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and

degradability

No data available.

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil No data available.

Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion. Contaminated Packaging

Section 14. Transport Information

14.1 UN Number 1170

Ethanol solution 14.2 Proper Shipping Name

14.3 Transport classes

UN classification 3 Subsidiary hazard(s) None 3 Transport category ADR Hazard ID 30 **Tunnel Restriction Code** D/E 14.4 Packing Group

14.5 Environment hazards

See section 12.

Special precautions for

user

14.7 Transport in bulk

Not transported in bulk.

No special precautions required.

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Flammable liquid, category 3; Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1; Skin

sensitization, category 1; Germ cell mutagenicity, category 2; Carcinogenicity, category 1B; Reproductive toxicity,

category 1B

Signal word Danger

Hazard Pictograms





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Hazard Statements H226, H315, H317, H318, H341, H350, H360

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

Precautionary Statements P281, P210, P261, P301+P330+P331, P303+P361+P353, P305+P351+P338

Use personal protective equipment as required. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing mist/vapours/spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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