Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 3.0 (Replaces revision 2.1 of 02 June 2023)

Revision date: Date printed: 06 November 2023 30 November 2024

Section 1. Identification

1.1 Product Identifier 0300

Product Name PRESERVATION FLUID - (Thiel Arterial 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 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

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H341: Suspected of causing genetic defects.

H350: May cause cancer.

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)
Ammonium nitrate	6484-52-2	229-347-8	01-2119490981-28-XXXX	13%	Ox. Sol. 3,Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I)
Ethanol	64-17-5	200-578-6	01-2119457610-43-XXXX	<10%	Flam. Liq. 2,Eye Irrit. 2
Potassium nitrate	7757-79-1	231-818-8	01-2119488224-35-XXXX	<4%	Ox. Sol. 3
Boric Acid	10043-35-	233-139-2	01-2119486683-25-XXXX	<2%	Repr. 1B
Formaldehyde	50-00-0	200-001-8	01-2119488953-20-XXXX	<2%	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
Morpholine	110-91-8	203-815-1	01-2119496057-30-XXXX	<2%	Flam. Liq. 3,Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (D),Acute Tox. 4 (I)
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

Section 4. First Aid

4.1 Description of first aid measures

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

ATTENTION.

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

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

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

position. OBTAIN MEDICAL ATTENTION URGENTLY.

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

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.

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

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. Personal Protection

6.2 Environmental precautions

Enviromental 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

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

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)			
Ammonium nitrate	6484-52-2	13%	-	-	-	-		
Ethanol	64-17-5	<10%	1000.0 ppm	1920.0 mg/m-3	-	-		
Potassium nitrate	7757-79-1	<4%	-	-	-	-		
Boric Acid	10043-35-3	<2%	-	-	=	-		
Formaldehyde	50-00-0	<2%	2.0 ppm	2.5 mg/m-3	2.0 ppm	2.5 mg/m-3		
Morpholine	110-91-8	<2%	10.0 ppm	36.0 mg/m-3	20.0 ppm	72.0 mg/m-3		
Chlorocresol	59-50-7	0.4%	-	-	-	-		

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

8.2 Exposure controls

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

Hand Protection Use solvent resistant gloves.

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 90°C
Melting Point Approx -3°C
Flash Point 49°C (Closed cup)

Upper Flammable Limit 19% Lower Flammable Limit 3.3% Auto Ignition 363°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 d

reactions

No data available.

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.

Other Information Contains methanol. This will not constitute a special problem since ethanol is preferentially metabolised. Chronic

intoxication may however produce damage to the optic nerve.

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 No data available.

degradability

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

12.5 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

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.

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

Section 14. Transport Information

14.1 UN Number 1170

14.2 Proper Shipping Name Ethanol solution

14.3 Transport classes

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

14.4 Packing Group III

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



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









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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