SLS Select Education - Safety Data Sheet

CHE5470SE

(in accordance with regulation 453/2010/EC)

Section 1. Identification

1.1 Product Identifier CHE5470SE

Product Name BENEDICT'S SOLUTION QUANTITATIVE 500ml.

CAS Number Mixture
REACH Registration No Not applicable

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 SLS Select Education



Wilford Industrial Estate Ruddington Lane

Wilford Nottingham NG11 7EP

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

1.4 Emergency Telephone (08:00-17:00) 0115 9821111

(24hr) (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Serious eye damage/irritation, category 2 (Eye Irrit. 2). Hazard to aquatic environment, category 1 (Aquatic Acute 1). Hazard to aquatic environment, category 1 (Aquatic Chronic 1).

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms





Hazard Statements Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

Precautionary Statements Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse

continuously 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.	Conc w/w	CLP Classification (1272/2008/CE)	
Sodium carbonate	497-19-8	207-838-8	~ 30.0 %	Eye Irrit. 2	
Potassium thiocyanate	333-20-0	206-370-1	12.5 %	Acute Tox. 4 (O), Acute Tox. 4 (D), Acute Tox. 4 (I), Aquatic Chronic 3	
Cupric sulphate	7758-98-7	231-847-6	1.8 %	Acute Tox. 4 (O), Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 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. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-

use.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

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 Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters 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 Avoid contact with eyes.

6.2 Environmental precautions

Environmental Motify 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. Sweep up and transfer to a suitable container for disposal. Wash area down

with copious amounts of water.

Minor Spillage 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

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

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)		
Sodium carbonate	497-19-8	~30%	-	-	<u>-</u>	-	
Potassium thiocyanate	333-20-0	12.5%	-	-	-	-	
Cupric sulphate	7758-98-7	1.8%	_	_	_	_	

8.2 Exposure controls

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory protective equipment

Hand Protection Wear gloves.

Eye Protection Use 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

Clear blue solution. Appearance Odour No specific odour. Not applicable pН **Boiling Point** Not available Melting Point Not applicable Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Not applicable Auto Ignition **Explosive Properties** No. Oxidising Properties No. Not applicable Vapour Pressure Not available Relative Density Not available Water Solubility

9.2 Other information

No data available.

Section 10. Stabitity & 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 No specific conditions.

10.5 Incompatable Materials No specific materials to avoid.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the liquid will be irritating to the eyes.

Skin Contact with the liquid may be irritating to the skin.

LD50 Skin Not available

Ingestion Ingestion of large amounts will produce nausea, & vomiting. Copper salts tend to cause vomiting and for this

reason poisoning by ingestion is rare.

LD50 Oral Not available

Inhalation Presents no significant inhalation health hazard.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Copper salts are harmful to the environment. Very Toxic to aquatic organisms and may cause long term adverse

effects in the aquatic environment.

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

Disposal Methods Do not dispose of as domestic waste.

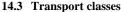
Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 3082

14.2 Proper Shipping Name Environmentally Hazardous Substance, Liquid,

N.O.S. (Cupric sulphate solution)



UN classification 9
Subsidiary Risk None
Transport category 3
ADR Hazard ID 90
Tunnel Restriction Code E

14.4 Packing Group III

14.5 Environment hazards Marine pollutant.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



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

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

Classification Serious eye damage/irritation, category 2; Hazard to aquatic environment, category 1; Hazard to aquatic

environment, category 1

Signal word Warning

Hazard Pictograms





Hazard Statements H319, H410

Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P264, P280, P305+P351+P338

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse continuously 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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