

SAFETY DATA SHEET

CALOTHERM

Since 1934

Product Name:	Calofree
Product Code:	CF500
According to regulation: ISO 11014-1	Version: 1.0
Revision Date: 09/09/2025	Date of compilation: 09/09/2025

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the product

Trade name: Calotherm

Product use: For cleaning precision optics, eyewear/visors, display screens etc.

1.2 Name, address and telephone number of Manufacturer/Issuer

Three Sixty Optical Ltd, Unit 65, Mochdre Industrial Estate, Newtown, Powys, SY16 4LE

1.3 Emergency telephone number

Emergency Phone: +44 (0) 7506 631432

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This product is classified as non-hazardous according to Regulation 1272/2008 (CLP)

2.2 Label elements

This product does not require specific Labelling according to regulation (EC) No 1272/2008

2.3 Other Information

There are no other hazards not otherwise classified that have been identified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

The product does not contain hazardous chemicals or percentage according to Regulation 1272/2008 (CLP).

Ingredients:

Component	CAS No.	EC No.	Classifications (Individual)	Concentration
C6 Alkyl glucoside.	54549-24-5	259-217-6	Eye Dam. 1	0.5-1 %
C9-11 Alc ethoxylate	68439-46-3	614-482-0	Acute Tox. 4 Eye Dam. 1	0.5-1 %
Tetrasodium N,N-bis (carboxylatomethyl)-L-glutamate	51981-21-6	257-573-7	Not Classified	1-1.5 %
Water	7732-18-5	231-791-2	Not Classified	>90 %

The exact percentage (concentration) of composition has been withheld as confidential IP.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: Move to fresh air. Seek medical advice if cough, shortness of breath or other respiratory problems occur.

In case of skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with soap & water. Obtain medical attention if irritation persists.

In case of eye contact: Whilst holding the eyelid(s) open, immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed. Take special care if exposed person is wearing contact lenses. Obtain medical advice immediately if irritation occurs.

If swallowed: If product is swallowed, do NOT induce vomiting; wash mouth with water and drink some water. If symptoms develop, or if in doubt, seek medical attention.

4.2 Indication of any immediate medical attention and special treatment needed

Consult a doctor if irritation persists.

SECTION5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Water, fog, foam, carbon dioxide, dry chemical. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

The product is not flammable. No dangerous reactions known.

5.3 Advice for firefighters

If staying in the danger area only, use self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress gases / vapors / mists with a water spray jet. Prevent fire-extinguishing water from contaminating surface water or the groundwater system

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin. Wear suitable gloves. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers. Contain the spillage using bunding.

6.3 Methods and materials for containment and cleaning up

Absorb with dry earth or sand. Dispose of in a closable, labelled container for disposal by an appropriate method.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product..

7.2 Conditions for safe storage, including any incompatibilities Storage conditions.

Store in cool, well ventilated area. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Store in original container.

Recommended storage temperature: see product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Exposure limits have not been established for any of the significant ingredients in this product.

Personal protective equipment: Adopt good manufacturing practice. No specific protective equipment specified.

Eye/face protection: Face shield and safety glasses Use tested and approved equipment for eye protection.

Skin protection: We suggest that routine unprotected and long-term contact with these products be avoided and that suitable gloves should be worn during longer term or bulk handling.

Protective Material Types: We suggest that protective clothing be made from rubber/ PVC.

Respirator: Usually, no respirator is necessary when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Clear Liquid	b)	Odour	Mild Detergent
c)	Odour Threshold	No data available	d)	pH	9.5
e)	Melting / freezing point	No data available	f)	Initial boiling point & Flash point	100 °C / > 62 °C
g)	Evaporation rate	No data available	h)	Flammability (solid, gas)	No data available
i)	Vapour pressure	No data available	j)	Vapour density	No data available
k)	Relative density	No data available	l)	Partition coefficient:	No data available
m)	Water solubility	Completely soluble in water	n)	Auto-ignition temperature n-octanol/water	No data available
o)	Decomposition temp.	No data available	p)	Viscosity	No data available
q)	Explosive properties	No data available	r)	Oxidizing properties	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity - No dangerous reaction known under conditions of normal use.

10.2 Chemical stability - Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized in large concentrations. Reacts with strong oxidizing agents. Toxic fumes may be released if heated above the decomposition point.

10.4 Conditions to avoid - Keep ignition sources away - Do not smoke. Store away from oxidizing agents.

10.5 Incompatible materials - Strong oxidising agents. Strong acids

10.6 Hazardous decomposition products - Under fire conditions only: Carbon monoxide and carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Acute toxicity:	Classification according to the Regulation 1272/2008 (CLP). Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Respiratory or skin sensitisation:	No data available
Germ cell mutagenicity:	No data available
Specific target organ toxicity (repeated exposure):	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish: Based on available data the classification criteria are not met.

Toxicity to daphnia and EC50 - Based on available data the classification criteria are not met.

12.2 Persistence and degradability - Evidence of total degradability

12.3 Bioaccumulative potential - Evidence of low bio-accumulation

12.4 Mobility in soil - No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Disposal must be made according to official regulations.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.3 Remarks

Waste shall be separated into categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number:

ADR/RID/ADN,IMDG,IATA: Not a dangerous product

14.2 UN proper shipping name:

Not available

14.3 Transport hazard class(es):

ADR/RID/ADN,IMDG,IATA: Not a dangerous product

14.4 Packaging group:

ADR/RID/ADN,IMDG,IATA: Not a dangerous product

14.5 Environmental hazards:

Product mixture contains no environmentally hazardous substance

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

Relevant information regarding restrictions:

None known.

EU Regulations:

Regulation EC 1272/2008 [EU-GHS/CLP]

US Regulations:-

SARA Title III Section 302/304 Extremely Hazardous Substance:

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

SARA Title III Section 311/312 Hazard Categorization:

This material does not contain any chemical components with CERCLA reportable quantities

CERCLA Section 102(a) Hazardous Substance:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

California Proposition 65:

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16 : OTHER INFORMATION

Further information

This Safety Data Sheet (SDS) contains information that was derived from data that is thought to be accurate. Although Three Sixty Optical Ltd is of the opinion that the data included in this document is in accordance with Regulation EC 1272/2008, the reader should not consider them to constitute a warranty or representation for which Three Sixty Optical Ltd assumes any legal obligation. Your consideration and confirmation are the only purposes for which they are provided.