

CALOTHERM

Material Safety Data Sheet

Calotherm Solution

**Trade names and references:
Caloclear / Calotherm Spray / Supaspray
NSN 6850995725722**

Last reviewed July 2022

IMPORTANT NOTE

THE CALOTHERM BRAND HAS BEEN WHOLLY OWNED BY THREE-SIXTY SINCE AUGUST 2012. NO CHANGES TO SOLUTION FORMULAS HAVE BEEN MADE DURING THIS TIME.

MATERIAL SAFETY DATA SHEET

Calotherm Solution

IDENTIFICATION:

PRODUCT CALOTHERM SOLUTION
MANUFACTURER THREE-SIXTY
UNIT 65 MOCHDRE INDUSTRIAL ESTATE
NEWTOWN
POWYS
SY16 4LE
UK
TELEPHONE ++44 (0)1686 627595
FAX ++44 (0)1686 610015
EMAIL sales@calotherm.co.uk

SECTION 1

N.F.P.A. HAZARD RATING

HEALTH 0
FLAMMABILITY 350°C IP 10/94 SEC 9.1
REACTIVITY 0
SPECIAL HAZARDS 0

SECTION 2

TRADE NAMES SUPASPRAY / CALOTHERM SPRAY / CALOCLEAR SPRAY
USE Solution for cleaning and de-misting all lenses including anti-reflective and multi-coated glass and plastic lenses when used in conjunction with Calotherm Microfibre Cloth (Supacloth)
MAKE UP An aqueous solution of:
Less than 6% Propan-2-ol (Isopropanol)....
CAS No. 67-63-0
Less than 15% Ethoxylated long chain primary alcohols....
CAS No. 61827-42-7
0.004% Fragrance. A complex mixture of aromatic chemicals non
Oxynol 12 (CAS No.26027-38-3) and Dipropylene Glycol (CAS No.
25265-71-8) and essential natural oils
D.O.T SHIPPING NAME Non-regulated

SECTION 3

HAZARDOUS INGREDIENTS Propan-2-ol (Isopropanol)

SECTION 4

BOILING POINT
MELTING POINT
SPECIFIC GRAVITY
(H₂O-1)
PERCENT VOLATILE BY
VOLUME
VAPOUR DENSITY
EVAPORATION RATE
(BUAC-1)
SOLUBILITY IN WATER
APPEARANCE
ODOUR

PHYSICAL DATA

101.8°C ASTM D1078-93
Not applicable
0.94
100
992.9 K₉/m³ ASTM D 4052-91
Not available
Soluble
Colourless liquid
Pleasant smelling bouquet

SECTION 5

FIRE AND EXPLOSION HAZARD DATA

As this mixture is very dilute it will exhibit a high flash point. Select extinguishing medium appropriate to other materials involved in and/or to the circumstances of the fire.

Flammable vapour capable of causing intoxication may be given off on heating.

Where large quantities are involved, fire fighters should wear self-contained breathing apparatus

Extinguishing Media:

Small fires – use carbon dioxide or dry chemical powder

Large fires – use alcohol resistant foam or water fog

Fire fighting procedure: Any suitable for adjacent material

SECTION 6

HEALTH HAZARD DATA

When handling large quantities:

Hand protection – wear suitable impervious gloves

Eye protection – wear safety glasses or goggles where splashing may occur

OCCUPATIONAL EXPOSURE LIMITS ASSIGNED BY THE A.C.O.I.H. 1993-1994

Propan-2-ol: TWA: 400ppm STEL:500ppm

O.S.H.A. PEL TWA: 400ppm

Where significant exposure is likely (dealing with large spillage or fire) wear self-contained breathing apparatus.

ADVERSE HUMAN HEALTH EFFECTS

Exposure symptoms: irritation to eyes; upon extended inhalation, narcosis

ROUTES OF ENTRY

Skin and mucous membranes – prolonged skin contact should be avoided. Will remove natural oils from the skin leading to dryness and cracking.

Non-irritant

Eyes – contact should be avoided. Will cause severe irritation to the eyes

Ingestion – should be avoided. May cause intoxication

Inhalation – should be avoided

SECTION 6 CONT...**EMERGENCY FIRST AID**

Skin contact – wash with clean water, remove contaminated clothing

Eye contact – remove contact lenses, if worn, and irrigate the eyes thoroughly with plenty of clean water for at least 15 minutes; obtain medical attention

Ingestion – Wash mouth with clean water; give water to drink; do not induce vomiting; obtain medical attention

Inhalation – Remove from exposure; keep warm and at rest; obtain medical attention

SECTION 7**REACTIVITY DATA**

STABILITY

Stable

CONDITIONS TO AVOID

High temperatures

MATERIALS TO AVOID

Strong oxidisers

HAZARDOUS
DECOMPOSITION

Combustion products; carbon monoxide; carbon dioxide

SECTION 8**ENVIRONMENTAL PROTECTION PROCEDURES**

SPILL RESPONSE

If size of spillage warrants, prevent spillage from entering water courses or sewers. If it has contaminated water courses, drains or vegetation, advise the appropriate authorities

WASTE DISPOSAL

To be performed in compliance with all current Local, State and Federal Regulations

SECTION 9**SPECIAL PROTECTION INFORMATION**

VENTILATION

Material should be handled in a ventilated area; general ventilation is adequate for control

RESPIRATORY
PROTECTION

None required where adequate ventilation exists

EYE PROTECTION

Protect from splash contact

SECTION 10**STORAGE AND HANDLING**

WAREHOUSE

General; keep containers tightly closed when not in use; avoid exposure to direct sunlight and sources of heat
Store in a cool dry place (maximum recommended storage temperature 30°C) away from strong oxidising agents

SHELF LIFE

Unlimited

MSDS – PREPARED BY THREE-SIXTY, OWNERS OF THE CALOTHERM BRAND

Unit 65 Mochdre Industrial Estate
Newtown
Powys
SY16 4LE
UK
Tel: +44 (0)1686 627595
Email: enquiries@calotherm.co.uk