

MATERIAL SAFETY DATA SHEET
For Freezol
Water based fire extinguisher anti-freezing agent

Section 1: CHEMICAL PRODUCT / COMPANY IDENTIFICATION

Material Identification

Product: Anti freeze concentrate for fire extinguishers
Synonyms: Freezol, Anti-freeze, Freeze Protection Additive.
CAS No: Mixture - No Single CAS # Applicable.

Company Identification

Manufacturer: 3FFF, Unit C Marconi Courtyard, Brunel Road, Earlstree Industrial Estate, Corby, Northants.
NN17 4LT. Tel: 0044 (0)1536 202919, Fax: 0044(0)1536 263641, Email: enquiries@3fffuk.com

Section 2: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation

Mixture of glycols in water.

Section 3: HAZARDS IDENTIFICATION

Health Hazards

Irritating to eyes and skin

Physical and Chemical Hazards

Non flammable

Specific Risks

This product is not classified as hazardous under European Directive 1999/45/EC

Section 4: FIRST AID MEASURES

After skin contact

Wash off with water. Remove contaminated / soaked clothing and rinse with water.

After Eye Contact

Flush Eye with plenty of water for at least 10 minutes

After Swallowing

Wash mouth with water. seek medical advice should pain occur and persist.

Section 5 FIRE FIGHTING MEASURES

Extinguishing Media

Foam, Powder, Carbon dioxide.

Protective Equipment For Fire Fighters

Standard equipment against fires.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear gloves and goggles

Environmental Protection

Absorb into sand or other absorbent material and shovel into container for disposal.

CLEANING MEASURES

Collecting

Pump into clearly identifiable unbreakable containers.

Cleaning

Wash thoroughly with water.

Disposal

Evacuate to a water treatment facility.

Section 7 HANDLING AND STORAGE

HANDLING

Standard equipment against chemicals.

STORAGE

Technical Measures

Storage area should contain accidental spill equipment.

Storage Conditions

Sealed containers in normal, cool warehouse.

Storage Recommendations

Original packaging.

PACKAGING MATERIAL

Recommended

Polyethylene, Polypropylene, Stainless Steel.

Not Advised

Mild Steel, Iron, Aluminium.

Recommended Sealing

Viton, Kevlar, Teflon.

Section 8 EXPOSURE CONTROL AND PERSONAL PROTECTION

Personal Protective Equipment

Hand Protection

Impermeable gloves (PVC) if continual handling.

Eye Protection

Goggles.

Body Protection

Working clothes.

Hygienic Measures

DO NOT eat, drink or smoke while handling the product, wash hands after working.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form

Liquid

Colour / Odour

Blue, Plastic Smell

pH

7.0 $\pm$ 1.0

Freezing Point

-30°C

Boiling Point

+190°C.

Flash Point

+103°C.

Specific Gravity @ 20°C

1100 $\pm$ 20Kg / m³.

Solubility

Completely soluble in water.

Section 10 STABILITY AND REACTIVITY

Thermal Decomposition

Stable under normal conditions of use and storage

Hazardous Reactions

None expected in standard use.

Section 11 TOXICOLOGICAL DATA

Acute Toxicity

None to be expected.

Local Effects On The Eyes & Skin

Not irritant to eyes and skin [OECD 404/405].

Section 12 ECOLOGICAL DATA

ENVIRONMENTAL BEHAVIOUR

TOD - 761g O₂/L [Molar Calculation]

Biodegradation data

Probably readily biodegradable.

Bio accumulative

Foaming agent if discharged in water.

Bio accumulative

Not expected according to our knowledge.

Ecotoxicity

Aquatic Life toxicity

Not expected to be toxic after dilution.

Section 13 DISPOSAL CONDITIONS

PRODUCT

Prohibition

Do not discharge into the environment.

Disposal

Small amounts of product do not interfere with water treatment facilities. Larger quantities should be treated as chemical waste according to local regulations

PACKAGING

Prohibition

Do not discharge into the environment.

Cleaning

Rinse with plenty of water.

Disposal

Incineration or an agreed method for package recycling.

Section 14 TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS

Road - RID/ADR

Non Hazardous

Sea - OMI/IMDG

Non Hazardous

Air - ICAO/IATA

Non Hazardous

Section 15 REGULATORY INFORMATION

LABELLING

CE Regulations

Not Classified

Hazard Symbols

Not Applicable

S Phrases

S20/21: When Using, do not eat, drink or smoke.

Section 16 OTHER INFORMATION

Rules Of Drafting

This Material Safety Data Sheet complies with ISO 11014-1 it is redacted in accordance to European directive 2001/58/EC.