

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 Product Identification AEROSPRAY LOW FREEZE PREMIX

1.2 Application and Use SPRAY AEROWATER LOW FREEZE
Fire Fighting

1.3 Supplier Chubb Fire Limited, Chubb house,
Sunbury-on-Thames, Middlesex TW16 7AR
(01932) 785588

Emergency Telephone Number

As Above

1.4 Product Description Hydrocarbon surfactants, fluorocarbon surfactants and glycol solvents.

2. COMPOSITION

Substance	Synonyms	Concentration %	Health class	CAS-No.
Di-ethylene glycol monobutyl ether	2-(2-Butoxyethoxy)ethanol	<1	X _i , R36	112-34-5
Ethylene glycol	1,2-Ethenediol	<25	X _n , R22	107-21-1
Hydrocarbon surfactants		<1	X _i , R41,38	142-31-4
Sodium salt		<1	R22,36,37,38	64-02-8
Fluorosurfactants		<1	X _i , R36,37,38	
Biocide		<0.01	Xi R43	
Water		Balance		

3. HAZARDS IDENTIFICATION

Human health hazards: May cause sensitisation by skin contact.

4. FIRST AID MEASURES

General

First aiders should know and take the precautions appropriate to avoid danger to themselves and the casualty.

Take casualty together with material safety data sheet of this product to hospital or doctor, if necessary.

First Aid – Skin: Wash off with warm soapy water. A moisturiser may be used to replenish lost oils. If persistent irritation occurs, obtain medical attention.

First Aid – Eye: Wash out eyes with plenty of water or eye wash solution and seek medical attention.

First Aid – Ingestion: Send casualty to hospital immediately. If ingestion is suspected, do not induce vomiting.

First Aid – Inhalation: Remove casualty from exposure. If there is breathing difficulty or cough, keep patient at rest, seated in position of maximum comfort.

5. FIRE FIGHTING MEASURES

General Hazards

N/A This product is for fire fighting purposes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Personal protection:

Environmental precautions:

Avoid contact with skin, eyes and clothing. Do not breathe mists, aerosols.

Wear protective clothing specified for normal operations.

SPILLAGE: The practice of washing spills into drains should be avoided if at all possible and should under no circumstances be allowed without first consulting the local Water Authority and the Environment Agency.

Clean-up methods – small spillage:

Absorb with earth, ash or sawdust for subsequent dry disposal. Place in a labelled, sealable container for subsequent safe disposal. Spillages cause slippery floors.

7. HANDLING AND STORAGE

Protect from sustained heat. Store in original sealed containers or approved systems. Store in an upright position not more than three high.

Personal Protective Equipment – Fire Fighting

Chubb foams will be used in fire fighting. This process may involve exposure to heat, flame and possibly toxic vapours and fumes. We recommend that appropriately designed personal protective equipment designed for use in firefighting situations should be used.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General precautions: Use only in well ventilated areas and follow general good housekeeping procedures

Occupational Exposure Limit:

Pure Ethylene glycol: Occupational Exposure Standard (OES)

Long term exposure limit (8 hour time weighted average) : 60mgm^{-3}

Short term exposure limit (10 minute) : 125mgm^{-3}

Personal Protective Equipment – Other Handling

Avoid prolonged, extensive or repeated inhalation or contact to eyes and skin.

Hand Protection

Wear impervious gloves of an approved type (e.g. neoprene).

Eye Protection

Wear safety goggles of an approved type (BS 2092).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid	pH at 20°C:	7.0
Boiling Point:	100°C	Colour:	Clear
Freeze Point:	<-10°C	Odour:	Detergent like
		Flammability:	Not flammable
		Solubility:	Miscible with water in all proportions
Viscosity at 20°C:	2.6cs	Specific Gravity:	1.032

10. STABILITY/REACTIVITY

Stability

Stable up to 100°C. Treat as water and exclude from contact with any materials which have violent reactions with water.

Hazardous Decomposition Products

Do not expose containers to heat or flame, since the containers are made from high density polyethylene and will burn. Thermal decomposition of containers and/or products may generate acrid smoke and fumes and traces of Na_2O , Cl^- , SO_x , NO_x , and HF.

11. TOXICOLOGICAL INFORMATION

Inhalation

Inhalation of hazardous amounts is unlikely when used as intended. May cause irritation to respiratory tract when inhaled.

Ingestion

Low oral risk when used as intended. May cause nausea, vomiting and diarrhoea when ingested.

Contact to eyes or skin

Low risk if appropriate precaution measures are taken (see section 6). Can cause irritation to skin and eyes.

12. ECOLOGICAL INFORMATION

Persistence/degradability: Readily biodegradable.
Bioaccumulation: Bioaccumulation is unlikely to occur due to metabolism and excretion.

Biodegradation

Biodegradable:	COD	447 mgg ⁻¹	(73.6%)
	BOD (5 day)	329 mgg ⁻¹	

Ecotoxicity: No data available at present.

13. DISPOSAL CONSIDERATIONS

Disposal

Waste should be disposed via local authority waste collection service or registered waste carrier. Ensure the destination is a licensed facility.

Local legislation: Control of Pollution Act 1974
Environmental Protection Act 1990
Special Waste Regulations 1996

14. TRANSPORT INFORMATION

Label for conveyance:	No Transport Warning Sign Required		
Road:			
UN No:	N/C		
Rail:			
Rail Transport Class No:	N/C		
Sea:			
Sea Transport Class No:	N/C	EmS No:	N/C
MFAG Table No:	N/C		
Air:			
Air Transport Class No:	N/C		

15. REGULATORY INFORMATION

Label For Supply:

X_i

Risk Phrases: R43 May cause sensitisation by skin contact
Safety Phrases: S24 Avoid contact with skin

UK Regulatory References:

Health and Safety at work Act 1974.

Chemicals (Hazard Information & Packaging for Supply) Regulations 1994 / Amendment
Regulations 1996.

EC Directives: Substances Directive 67/548/EEC as amended by 69/81/EEC, 70/189/EEC,
73/146/EEC, 75/409/EEC, 79/831/EEC General Preparations Directive
88/379/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging for Supply) Regulations.
Approved Code of Practice:

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes: Occupational Exposure Limits EH40/96.

16. OTHER INFORMATION

For further literature/information see product data sheet

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product
for the purposes of health,safety and environmental requirements only. It should not therefore be construed
as guaranteeing any specific property of the product.
