



Material Safety Data Sheet According to 91/155 EEC

Printing date 19.10.2006

Reviewed on 19.10.2006

* 1 Identification of substance

· **Trade name:** HYDROFIX-SF 826509

· **Intended Use** Dampening water additive

· **Application of the substance / the preparation** Dampening water additive -

· **Manufacturer/Supplier:**

INFO-LAB Ltd.

Unit 16, Annacotty Industrial Estate

Annacotty, Co. Limerick

Phone: +353 61 330666/7

Fax: +353 61 330668

· **Informing department:**

Product Safety hubergroup.

Contact: Dr. Sebastian Gierisch

Telefon: + 49 89-9003-444

Telefax: + 49 89-9003-505

E-mail: sebastian.gierisch@mhm.de

* 2 Composition/Data on components:

· **Chemical characterization**

· **Description:**

Water-based formulation containing buffer, hydrophilizers, surfactants, antimicrobial agents, alcohols and additives.

· **Dangerous components:**

which are hazardous within the meaning of statutory order on dangerous substances 67/548/EEC.

Propylenglykolmonoethylether

5 - 10%

R 10-67

CAS: 52-51-7

bronopol (INN)

< 0.5%

EINECS: 200-143-0 Xn, Xi, N; R 21/22-37/38-41-50

CAS: 55965-84-9

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2-isothiazol-3-one [EC no. 220-239-6] (3:1)

T, C, N; R 23/24/25-34-43-50/53

· **Additional information** For the wording of the listed risk phrases refer to section 16.

* 3 Hazards identification

· **Hazard designation:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

(Contd. on page 2)



Material Safety Data Sheet According to 91/155 EEC

Printing date 19.10.2006

Reviewed on 19.10.2006

Trade name: **HYDROFIX-SF 826509**

(Contd. of page 1)

* 4 First aid measures

· General information

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

· After inhalation

Remove to fresh air.

Keep patient warm and at rest.

· After skin contact

Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

· After eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

· After swallowing Do NOT induce vomiting. Obtain medical attention.

5 Fire fighting measures

· Suitable extinguishing agents Alcohol resistant foam, CO₂, powders, water spray.

· For safety reasons unsuitable extinguishing agents Water jet.

· Special hazards caused by the material, its products of combustion or flue gases:

Exposure to hazardous decomposition products may cause a health hazard.

Appropriate breathing apparatus may be required.

Fire will produce dense black smoke.

Cool closed containers exposed to fire with water.

· Additional information Collect run-off from fire fighting.

* 6 Accidental release measures

· Person-related safety precautions:

Exclude sources of ignition.

Ventilate the area.

· Measures for environmental protection:

If the product contaminates rivers and lakes or sewages inform respective authorities.

Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.

· Measures for cleaning/collecting:

Clean preferably with a detergent.

Avoid use of solvents.

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.

(Contd. on page 3)



Material Safety Data Sheet According to 91/155 EEC

Printing date 19.10.2006

Reviewed on 19.10.2006

Trade name: **HYDROFIX-SF 826509**

(Contd. of page 2)

* 7 Handling and storage

- **Handling**

- **Information for safe handling:**

Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.

- **Storage**

- **Requirements to be met by storerooms and containers:**

Keep container tightly closed. No smoking.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

- **Further information about storage conditions:**

Store in accordance with the particular national regulations concerning water pollution.

Exclude sources of ignition.

Observe label precautions.

Protect from frost.

Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.

* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

If relevant apply technical measures to comply with the occupational exposure limits. This can be achieved by a good general extraction and - if practically feasible - by the use of a local exhaust ventilation.

- **Components with critical values that require monitoring at the workplace:**

Numerical data - if specified - are taken from the valid national lists.

- **56-81-5 glycerol (5 - 10%)**

WEL Long-term value: 10 mg/m³

- **Personal protective equipment**

- **Breathing equipment:**

If the occupational exposure limits can't be met, in exceptional cases suitable respiratory protection should be worn only for a short period of time.

- **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

For prolonged or repeated contact use gloves.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)



Material Safety Data Sheet According to 91/155 EEC

Printing date 19.10.2006

Reviewed on 19.10.2006

Trade name: HYDROFIX-SF 826509

(Contd. of page 3)

Material of gloves

Applicable for example are gloves of KCL GmbH, D 36124 Eichenzell, e-mail: vertrieb@kcl.de with following specification (Laboratory test according EN 374)

Recommend protective glove:

Article / Name /Material / Thickness Material / Breakthrough Time Remarks

Nr. 730/ Camatril Velours / Nitril / 0,4 mm Level 6 > 480 min. by full contact

Nr. 743/ Dermatril / Nitril / 0,2 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Use safety eyewear designed to protect against splash of liquids.

Body protection:

All parts of the skin should be washed after contact.

Personel should wear antistatic footwear.

Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.

* 9 Physical and chemical properties:

General Information

Form: liquid
Colour: greenish
Smell: characteristic

Change in condition

Boiling point/Boiling range: 100 °C

Flash point: 55 °C

Ignition temperature: 400.0 °C

Self-inflammability: Product is not selfigniting.

Critical values for explosion:

Lower: approx. 0.9 Vol %

Upper: approx. 12.0 Vol %

Vapour pressure at 20 °C: 23.0 hPa

Density at 20 °C 1.02 g/cm³

Solubility in / Miscibility with

Water: completely miscible with water

pH-value at 20 °C: 3.5-5.5

Organic solvents: 5 - 10 %

Water: 60 - 80 %

* 10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Stable under recommended storage and handling conditions (see section 7).

Product may release hydrogen - increased storage temperature will accelerate this process.

(Contd. on page 5)



Material Safety Data Sheet According to 91/155 EEC

Printing date 19.10.2006

Reviewed on 19.10.2006

Trade name: HYDROFIX-SF 826509

(Contd. of page 4)

Materials to be avoided:

Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.

Dangerous products of composition:

Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

*** 11 Toxicological information**

The Preparation is classified according to the conventional method (calculation method of the EC-directive 1999/45/EC). Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Additional toxicological information:

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects as mucous membrane and respiratory system irritation and adverse effects of kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

*** 12 Ecological information:**

The Product should not be allowed to enter drains of water courses or soil.

*** 13 Disposal considerations****Product:**

Recommendation Do not allow to enter drains.

European waste catalogue 14 06 03: other solvents and solvent mixtures

Uncleaned packagings:

Recommendation: Not orderly emptied cans and ink remnants are special waste.

*** 14 Transport information**

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

Remarks: No dangerous good according 2.2.3.1.1 note 1

Maritime transport IMDG/GGVSea:

Marine pollutant: No

Remarks: see Amendment 5.1.3.1.1

(Contd. on page 6)



Material Safety Data Sheet According to 91/155 EEC

Printing date 19.10.2006

Reviewed on 19.10.2006

Trade name: **HYDROFIX-SF 826509**

(Contd. of page 5)

- **Air transport ICAO-TI and IATA-DGR:**
- **Remarks:** see section 3.3.1.3

*15 Regulatory information

- **Designation according to EC guidelines:**
- **Code letter and hazard designation of product:**



Xi Irritant

- **Hazard-determining components of labelling:**
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1)
- **Risk phrases:**
36/38 Irritating to eyes and skin.
43 May cause sensitisation by skin contact.
- **Safety phrases:**
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
29/35 Do not empty into drains; dispose of this material and its container in a safe way.
37 Wear suitable gloves.

*16 Other information:

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.

- **Relevant R-phrases**
10 Flammable.
21/22 Harmful in contact with skin and if swallowed.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
34 Causes burns.
37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
50 Very toxic to aquatic organisms.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67 Vapours may cause drowsiness and dizziness.