1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

HYDRAL S3

Use of the substance/preparation

Fire extinguishing agent

Company/undertaking identification

Company name : SABO FOAM S.R.L.
Levate, Italia
Street : Via Caravaggi
Place : IT-24040 Levate (BG)
Telephone : +39.035.205.7011 Telefax : +39.035.454.9005
Contact person : Health and Safety Manager
Inquiry office : Laboratory
Emergency telephone : +39 035 337 001

2. Hazards identification

Classification

This preparation is not classified as dangerous according to Directive 1999/45/EC.

Explication of special hazards for human health and environment

May be harmful if swallowed. Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Within expanded foam respiration is impossible. Danger of suffocation!

3. Composition/information on ingredients

Chemical characterization (Mixture)

Aqueous solution of alkali salts and surfactants.

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-473-3	107-21-1	ethanediol, ethylene glycol	15 - 20 %	Xn R22
203-961-6	112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	5 - 10 %	Xi R36

Full text of each relevant R phrase can be found in heading 16.

Further Information

contains: Fluoroadditive

4. First aid measures

General information

Move out of dangerous area.

Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use.

If you feel unwell, seek medical advice (show the label where possible). If symptoms persist, call a physician or Poison Control Centre immediately.

After inhalation

It was demonstrated that during intended and foreseen applications, no respirable aerosol is formed.

Avoid formation of aerosol. Do not inhale aerosol. Inhalation of aerosols may cause irritation to mucous membranes.

Move to fresh air. In case of shortness of breath, give oxygen.

After contact with skin

In case of skin contact: Wash off with soap and plenty of water. If skin irritation persists, call a physician.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

If swallowed, seek medical advice immediately and show this container or label.

Do NOT induce vomiting. Risk of product entering the lungs on vomiting after ingestion.

No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

Advice to doctor

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

5. Fire-fighting measures

Suitable extinguishing media

The product is not flammable.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

None known.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

None known.

Special protective equipment for fire-fighters

Not required

6. Accidental release measures

Personal precautions

Solvent-resistant gloves (butyl-rubber); Safety glasses with side-shields

Environmental precautions

Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

Methods for cleaning up/taking up

Clean-up methods - small spillage:

Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated floors and objects thoroughly while observing environmental regulations. After cleaning, flush away traces with water.

Clean-up methods - large spillage:

Prevent further leakage or spillage. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained. Soak up with inert absorbent material and dispose of as hazardous waste. Suitable material for picking up Absorbent material, organic. (Universal binder, Peat, Sawdust)

Additional information

Contaminated surfaces will be extremely slippery.

Never return spills in original containers for re-use.

7. Handling and storage

Handling

Advice on safe handling

Wear suitable gloves and eye/face protection.

When using, do not eat, drink or smoke.

Never mix concentrates directly.

Use only clean equipment.

Do not breathe vapours or spray mist.

Advice on protection against fire and explosion

No special handling advice required.

Further information on handling

The pressure in sealed containers can increase under the influence of heat.

Storage

Requirements for storage rooms and vessels

Store in a place accessible by authorized persons only.

Suitable container and packaging materials for safe storage: Stainless steel, Polypropylene, Plastic container of HDPE

Unsuitable material: Aluminium, Zinc

Advice on storage compatibility

No special restrictions on storage with other products.

Further information on storage conditions

Keep tightly closed. Keep away from direct sunlight.

Recommended storage temperature: Take notice of the directions of use on the label.

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS-No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	15	101,2		TWA (8 h)	WEL
		10	67,5		STEL (15 min)	WEL
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL

Exposure controls







Protective and hygiene measures

Wear suitable gloves and eye/face protection.

Avoid contact with skin, eyes and clothing.

When using, do not eat, drink or smoke.

Keep away from food, drink and animal feeding stuffs.

Contaminated work clothing should not be allowed out of the workplace.

Do not breathe vapours or spray mist.

Respiratory protection

Not required; except in case of aerosol formation.

Hand protection

Solvent-resistant gloves (butyl-rubber)

Eye protection

Tightly fitting safety goggles; Eye wash bottle with pure water

Skin protection

Not required

Environmental exposure controls

Should not be released into the environment. Prevent product from entering drains. Do not allow material to contaminate ground water system.

9. Physical and chemical properties

General information

Physical state :	Liquid
Colour :	yellow
Odour :	aromatic

Important health, safety and environmental information

		Test method
pH-Value (at 20 °C) :		
Changes in the physical state		
Boiling point :	> 100 °C	
Flash point :	> 90 °C	
Water solubility : (at 20 °C)	completely miscible	

10. Stability and reactivity

Conditions to avoid

Direct sources of heat.

Strong sunlight for prolonged periods.

Do not expose to temperatures above 50 °C.

Protect from contamination.

Materials to avoid

Strong acids and strong bases; Strong oxidizing agents; Reacts violently with peroxides.

Hazardous decomposition products

Carbon oxides; nitrogen oxides (NOx)

Additional information

No dangerous reaction known under conditions of normal use.

11. Toxicological information

Acute toxicity

None known.

Corrosive and irritant effects

Irritating to eyes and respiratory system. Ingestion may cause irritation to mucous membranes. May cause skin irritation in susceptible persons.

Sensitising effects

None under normal processing.

Severe effects after repeated or prolonged exposure

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Carcinogenic/mutagenic/toxic effects for reproduction

None known.

12. Ecological information

Ecotoxicity

Readily biodegradable, according to appropriate OECD test.

Persistence and degradability

Waste water from subsequent processing should be given appropriate treatment in line with local regulations. Contained tenside is more than 90% biodegradable.10

Other adverse effects

None under normal processing.

Further information

The product contains organic halogens.

13. Disposal considerations

Advice on disposal

Do not dispose of waste into sewer.

If recycling is not practicable, dispose of in compliance with local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

The following Waste Codes are only suggestions:

161000 - aqueous liquid wastes destined for off-site treatment

Contaminated packaging

Soak up with inert absorbent material and dispose of as hazardous waste.

Local authorities should be advised if significant spillages cannot be contained.

See also section 6

14. Transport information

Land transport (ADR/RID)

Description of the goods

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

Inland waterways transport

Description of the goods

Not dangerous goods

Marine transport

Description of the goods

Not dangerous goods

Air transport

Description of the goods

Not dangerous goods

15. Regulatory information

Labelling

S phrases

03	Keep in a cool place.
15	Keep away from heat.
21	When using do not smoke.
25	Avoid contact with eyes.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35	This material and its container must be disposed of in a safe way.
39	Wear eye/face protection.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EU regulatory information

Additional information

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

National regulatory information

Water contaminating class (D) : 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

22	Harmful if swallowed.
36	Irritating to eyes.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)