

Material Safety Data Sheet

according to 91/155/EEC



Product name : Aquapol F520
Revision : 09.12.2004 **Version :** 5.0.0
Print date : 14.12.2004

01. Identification of substance, preparation and company

Product name:

Aquapol F520 (F520.A)

Manufacturer/Supplier

MONOPOL AG

Street/P.O.Box

Oberrohrdorferstr. 51

Country code/Postal code/Town/City

5442 Fislisbach

Telephone / Telefax

056 484 77 77 / 056 484 77 99

Emergency information

145 / 01 251 51 51

02. Composition/information on ingredients

Chemical characterization

Coating material, water diluible

Hazardous components

2-BUTOXYETHANOL ; EC-No. : 203-905-0 ; CAS-No. : 111-76-2

Percentage : 1 - 5 %

Classification : Xn ; R 20/21/22 Xi ; R 36/38

TRIETHYLAMINE ; EC-No. : 204-469-4 ; CAS-No. : 121-44-8

Percentage : 1 - 5 %

Classification : F ; R 11 C ; R 35 Xn ; R 20/21/22

METHYL-AETHYL-KETOXIM

Percentage : 0.5 - 1 %

Classification : R 43 Xi ; R 36

AMMONIA SOLUTION ; EC-No. : 215-647-6 ; CAS-No. : 1336-21-6

Percentage : < 0.5 %

Classification : N ; R 50 C ; R 34

03. Hazards identification

Hazard designation

Irritating to eyes, respiratory system and skin

Classification : Xi ; R 36/37/38

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration.

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Unconsciousness: lateral position - call a physician.

After skin contact

Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Contact a doctor immediately. Keep at rest. Do not induce vomiting.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment

Appropriate breathing apparatus may be required.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

07. Handling and storage

Information for safe handling

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws. For personal protection see Section 8. Gas mask in case of spray processing.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Requirements to be met by storerooms and containers

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Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking. Keep containers dry and cool. Keep containers in a well-ventilated place. Comply with the health and safety at work laws.

Storage class (VCI) : 12

08. Exposure controls and personal protection

Additional information about engineering measures

Provide for sufficient ventilation.

Components with critical values that require monitoring at the workplace (exposure limits)

2-BUTOXYETHANOL ; CAS-No. : 111-76-2

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 20 ppm / 98 mg/m³

Category : 4

Remarks : H,Y

Version date : 01.03.2002

Specification : TRGS 903 - biological workplace tolerance values (D)

Parameter : Butoxy acetic acid / urine / in cases of long term exposure after several shifts

Value : 100 mg/l

Version date : 01.05.2002

Specification : Short term exposure limit (EC)

Value : 50 ppm / 246 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : threshold limit value (EC)

Value : 20 ppm / 98 mg/m³

Remarks : H

Version date : 08.06.2000

TRIETHYLAMINE ; CAS-No. : 121-44-8

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)

Value : 1.9 ppm / 8 mg/m³

Category : = 1 =

Version date : 01.03.2002

Specification : Short term exposure limit (EC)

Value : 3 ppm / 12.6 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : threshold limit value (EC)

Value : 2 ppm / 8.4 mg/m³

Remarks : H

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Remarks : H
Version date : 08.06.2000

AMMONIA SOLUTION ; CAS-No. : 1336-21-6

Specification : TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value : 50 ppm / 35 mg/m³
Category : = 1 =
Remarks : Y
Version date : 01.03.2002

Personal protective equipment

Hand protection

Solvent-resistant protective gloves must be worn. For prolonged or repeated handling, use barrier creams to protect the exposed areas of the skin.

Eye protection

Use safety glasses.

Body protection

After skin contact wash thoroughly with soap and water or use recognised skin cleanser. Do Not use solvents or thinners.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Coloured.
Odour : Like amine.

Relevant safety data

Boiling point / range :	(1013 hPa)			not applicable
Flash point :				not applicable
Vapour pressure :	(50 °C)			not applicable
Density :	(20 °C)		1.336	g/cm ³
Solvent-separation test :	(20 °C)	<	3	%
Flow time :	(20 °C)	>	100	s DIN-cup 4 mm

10. Stability and reactivity

Conditions to avoid

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

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

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.

Additional toxicological information

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There no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

12. Ecological information

Additional ecological information

General ecological information

There are no data available on the product itself. Do not empty into waters or drains.

13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

14. Transport information

Land transport ADR/RID (2003)

Classification

Class : -

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : -

Air transport ICAO-TI and IATA-DGR

Classification

Class : -

15. Regulatory information

Classification according to EEC directives

Danger symbol and danger designation



Xi ; Irritant

R-phrases

36/37/38 Irritating to eyes, respiratory system and skin

S-phrases

35 This material and its container must be disposed of in a safe way
37 Wear suitable gloves
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
24/25 Avoid contact with skin and eyes

Special designation for certain preparations

99 Contains METHYL-AETHYL-KETOXIM ; . May produce an allergic reaction.

National regulatory information

Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

Emission control act ("TA-Luft")

Sum organic substances class I : < 5 %

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Water pollution classification

Class : 1 according VwVwS

Poisonous law (CH)

Class : -

BAGT-number : 619000

16. Other information

Further information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

15. Hazard-determining components of labelling

R-Phrases of components

11	Highly flammable
20/21/22	Harmful by inhalation, in contact with skin and if swallowed
34	Causes burns
35	Causes severe burns
36	Irritating to eyes
36/38	Irritating to eyes and skin
43	May cause sensitization by skin contact
50	Very toxic to aquatic organisms

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
