

## **SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME AQUASHIELD PROTECT GLASS

**SUPPLIER** AQUASHIELD SRL

**LOCATION** 5, Gheorghe Doja street, 410163, Oradea, Romania

**INFO CONTACT** 0040 729 278 276

INFO CONTACT orders@aquashield.eu

**EMERGENCY CONTACT** 0040 773 964 655

## **SECTION 2. COMPOSITION, INFORMATION ON INGREDIENTS**

HYDROPHOBIC GLASS COATING - COMPOSITION FROM MODIFIED HYBRID MATERIALS IN DENATURED ETHANOL SOLUTION

NAME	CAS	Concentration	ACGIH TL	OSHA PE
ETHANOL ALCOHOL	64-17-5	60 %	1000 ppm 1880 mg/m	1000 ppm 1900 mg/m
ISOPROPANOL	67-63-0	3 %	400 ppm	400 ppm
AMORPHOUS SILICA	7631-86-9	2-5%	none	none
H2O	7732-18-5	2-5%	none	none
BONDING AGENTS	2530-	1-2%	none	none
NON HAZARDOUS		to make 100%	none	none

### **SECTION 3. HAZARD IDENTIFICATION**

Regulation (EC) No 1272/2008 (CLP)

Hazard classes / Hazard
categories Hazard
Flammable liquids, Category 2 H225

67/548/EEC or 1999/45/EC

Hazard Characteristics R-phrase(s)

Highly flammable. R11

Label elements: Hazard pictograms





## Label elements: Signal word: Hazard statements: Danger Highly flammable liquid and vapour

Health Hazards May cause irritation to respiratory system. May cause moderate

irritation to skin. May cause eye irritation. Ingestion may cause

drowsiness and dizziness. Possibility of organ or organ system damage from prolonged exposure; see Chapter 11 for details. Target organ(s):

Liver.

Safety Hazards Highly flammable. Flammable liquid and vapour

Not classified as dangerous for the environment



Environmental Hazards

See Toxicological Information (section 11)

Label elements: Signal word: Hazard statements: Danger Highly flammable liquid and vapour

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irritation to skin. May cause eye irritation. Ingestion may cause

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Liver.

Safety Hazards Highly flammable. Flammable liquid and vapour

Environmental Hazards Not classified as dangerous for the environment

See Toxicological Information (section 11)

### **SECTION 4. FIRST AID MEASURES**

Eye Contact Irritating to eyes. Can be damaging if large amount is splashed into eyes.

Wash eyes promptly with plenty of water, while lifting the eye lids. Continue

to rinse for at least 15 minutes, and get medical attention.

Skin Contact Irritating to skin. Remove affected person from source of contamination.

Wash contaminated skin promptly with soap or mild detergent and water.

Remove clothing promptly, if soaked through, and wash

Inhalation Remove to fresh air. If rapid recovery does not occur, transport to nearest

medical facility for additional treatment

Ingestion If swallowed, do not induce vomiting: transport to nearest medical facility for

additional treatment. If vomiting occurs spontaneously, keep head below

hips to prevent aspiration

Occupational Occupational exposure limits (8-hour reference period) 1000 ppm (1900

mg/m3) Intoxicating if continuously inhaled for a long period of time. Move the person to fresh air, immediately perform artificial respiration if breathing has stopped. When breathing is difficult, properly-trained personnel may administer oxygen. Keep the person warm and at rest. Get medical attention

promptly.

### **SECTION 5. FIRE FIGHTING MEASURES**

Extinguishing Media Alcohol-resistant foam, water spray or fog. Dry

chemical powder, carbon dioxide, sand or earth

may be used for small fires only

Unsuitable Extinguishing Media Do not use water in a jet

Special hazards arising from substance or

mixture



Advice for fire-fighters

Additional Advice

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Ethanol burns with a smokeless blue flame that is not always visible in normal light

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space

If possible remove containers from the danger zone. If the fire cannot be extinguished the only course of action is to evacuate immediately. Contain residual material at affected sites to prevent material from entering drains (sewers), ditches, and waterways

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Large Spill and Leak Small quantities can be mopped or wiped up with rags.

Eliminate all ignition sources. Keep unnecessary personnel away. Stop leak if without risk. Use suitable protective equipment (Section 8). For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Vapor can travel for considerable distances both above and below the ground surface. Underground services (drains, pipelines, cable ducts) can provide preferential flow paths. Do not breathe fumes, vapor.

## **SECTION 7. HANDLING AND STORAGE**

Handling Keep container closed. Use only with adequate ventilation. Keep away from

heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting

and material handling equipment).

Storage Store in a segregated and approved area. Keep container in a cool, well-

ventilated area. Closed and sealed until ready for use. Avoid all possible

sources of ignition (spark or flame). Keep container tightly closed

General Precautions Avoid breathing vapors or contact with material. Only use in well ventilated

areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine Appropriate controls for safe



handling, storage and disposal of this material. Air-dry contaminated clothing in a well- ventilated area before laundering

## **SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

### **Control Parameters: Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3
Fthanol	FH40 WFI	TWA	1.000 nnm	1.920 mg/m3
	ACGIH	STEL	1,000 ppm	
Material	Source	Type	ppm	mg/m3
Isopropanol	EH40 WEL	TWA	400 ppm	983 mg/m3
	ACGIH	STEL	500 ppm	1,230 mg/m3

## **Control Parameters: Exposure Controls**

GENERAL INFORMATION	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances
VENTILATION	Store in a well-ventilated area. Work area must be well ventilated. Use engineering controls to reduce air contamination to permissible exposure level
RESPIRATORS	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational Exposure Level (OEL).
PROTECTIVE	Wear gloves of impervious material e.g. laminated film or nitrile. Final
GLOVES	choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken
EYE PROTECTION	Wear approved chemical safety goggles where eye exposure is reasonably probable. Contact lenses should not be worn when working with this chemical!
OTHER	Use engineering controls to reduce air contamination to permissible
PROTECTION	exposure level. Provide eyewash station and safety shower. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Wear appropriate clothing to prevent repeated or prolonged skin contact.



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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE** Clear, colorless

PHYSICAL STATE: Liquid BOILING POINT F: 208

**VAPOR PRESSURE** 

5.9 kPa [20°C]

(MMHG): **SPECIFIC** 

GRAVITY

0.78  $0.7 \, \mathrm{g} \, / \, \mathrm{ml}$ 

**EVAPORATION** RATE: BASIS (=1):

1.7

Odor Α Odor threshold pH AS SUPPLIED: Ca2 VAPOR DENSITY (AIR 1.6 Flashpoint F: 61 C: 16 **SOLUBILITY IN** yes WATER

## SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY Stable under recommended storage conditions

**CONDITIONS TO AVOID** Heat, flames and sparks. Extremes of temperature and direct

sunlight

INCOMPATIBILITY WITH Alkali metals, Ammonia, Oxidizing agents, Peroxides

## **SECTION 11. TOXICOLOGICAL INFORMATION**

D/LC50 values that are relevant: LD50: ORL-RAT, 7,060 mg/kg (Ethanol). Carcinogenicity Classification: IARC (International Agency for Research on Cancer) - Not Listed NTP (National Toxicology Program) - Not Listed

INHALATION Inhalation of high concentrations may cause central nervous system

> effects characterized by nausea, headache, dizziness, unconsciousness and coma. Causes respiratory tract irritation.

Vapors may cause dizziness or suffocation.

INGESTION May cause gastrointestinal irritation with nausea, vomiting, and

> diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement,

followed by headache, dizziness, drowsiness, and nausea.

**SKIN** Causes moderate skin irritation. Dry skin

**EYES** Produces irritation, characterized by a burning sensation, redness,

tearing, inflammation

**CHRONIC** Prolonged or repeated skin contact may cause dermatitis. Chronic

> inhalation and ingestion may cause effects similar to those of acute inhalation and ingestion. Prolonged ingestion may cause liver,

kidney, and heart damage.

## **SECTION 12. ECOLOGICAL INFORMATION**

**ECO-TOXICITY** Not available PERSISTENCE POTENTIAL Not available



PRODUCTS OF BIODEGRADATION

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic. The product is biodegradable and has not been shown to interfere in anyway with waste water treatment plants. In high concentrations it harms fish and plankton.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

WASTE INFORMATION Waste must be disposed of in accordance with federal, state and

local environmental control regulations

MATERIAL DISPOSAL Recover or recycle if possible. It is the responsibility of the waste

generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Do not dispose into the environment, in drains or in water courses. Do not dispose of tank water bottoms by allowing them to drain into the ground. This

will result in soil and groundwater contamination.

CONTAINER DISPOSAL Drain container thoroughly. After draining, vent in a safe place away

from sparks and fire. Residues may cause an explosion.

CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES!

## **SECTION 14. TRANSPORT INFORMATION**

### Land transport (ADR/RID): ADR

UN No 1170

UN Proper Shipping Name ETHYL ALCOHOL SOLUTION

Transport Hazard Class 3
Packing group 11
Danger label (primary risk) 3
Environmental Hazard No

Special Precautions for user Special Precautions: Refer to Chapter 7, Handling & Storage, for

special precautions which a user needs to be aware of or needs

to comply with in connection with transport.

**DOT** 

Shipping Name: ETHYL ALCOHOL SOLUTION Canada TDG ETHYL ALCOHOL SOLUTION

Hazard Class 2 Packing group 11

Identification Number UN1170. UN Number: UN1170



RID

UN No 1170

UN Proper Shipping Name ETHYL ALCOHOL SOLUTION

Transport Hazard Class 3
Packing group 11
Danger label (primary risk) 3
Environmental Hazard No

Special Precautions for user Special Precautions: Refer to Chapter 7, Handling & Storage, for

special precautions which a user needs to be aware of or needs

to comply with in connection with transport

Sea transport (IMDG Code)

UN No 1170

UN Proper Shipping Name ETHYL ALCOHOL SOLUTION

Transport Hazard Class 3
Packing group 11
Danger label (primary risk) 3
Environmental Hazard No

Air transport (IATA)

UN No 1170

UN Proper Shipping Name ETHYL ALCOHOL SOLUTION

Transport Hazard Class 3
Packing group 11
Danger label (primary risk) 3
Environmental Hazard No

Packing group Special Precautions: Refer to Chapter 7, Handling & Storage, for

special precautions which a user needs to be aware of or needs

to comply with in connection with transport

## **SECTION 15. REGULATORY INFORMATION**

U.S. Regulations US INVENTORY (TSCA): Listed on inventory. Other Regulations AUSTRALIAN INVENTORY (AICS): inventory.

CANADA INVENTORY (DSL): Listed on inventory. CHINA INVENTORY (IECS): Listed on inventory.

EC INVENTORY (EINECS/ELINCS): Listed on inventory.

JAPAN INVENTORY (ENCS): Listed on inventory. KOREA INVENTORY (ECL): Listed on inventory Australian Hazchem Code: No information found.



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### **SECTION 16. OTHER INFORMATION**

LABELING ACCORDING TO REGULATION (EC) NO 1272/2008

CLP PRECAUTIONARY STATEMENTS

**PREVENTION** 

H225: Highly flammable liquid and vapor. ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria

P102: Keep out of reach of children.

P210: Keep away from heat/sparks/open flames/hot surfaces.

- No smoking.

P233: Keep container tightly closed.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

STORAGE P403+P235: Store in a well-ventilated place. Keep cool.

LABELING ACCORDING TO DIRECTIVE 1999/45/EC

EC Symbols F Highly flammable EC Highly flammable

Classification

EC Risk Phrases R11 Highly flammable

EC Safety S2 Ke Phrases

S2 Keep out of the reach of children

S7 Keep container tightly closed S16 Keep away from sources of ignition -

No smoking

## **SECTION 17. DISCLAIMER**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.