



## **MATERIAL SAFETY DATA SHEET**

EC regulation No. 1907/2006 – No. 453/2010 (REACH)

### **SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

#### **1.1. Product identifier**

Name: LIQUIDUR (product code: PV24)

#### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Concrete surface hardening agent.

#### **1.3. Details of the supplier of the safety data sheet**

Registered company name: DUROSTONE Kft.

Address : 2038 Sósút Ipari park, 3508/23

Telephone : +36 1 488 00 66

Email : info@durostone.hu

#### **1.4. Emergency telephone number :**

Telephone : +36 1 488 00 66, Email : info@durostone.hu

### **SECTION 2: HAZARDS IDENTIFICATION**

#### **2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 (CLP) and its amendments.**

GHS Classification : This mixture is not hazardous and need not to be labelled.

**In compliance with directives 67/548/EEC (DDP), 1999/45/EC and their amendments.**

This mixture is not dangerous.

#### **2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 (CLP) and its amendments.**

Safety datasheet available for professional user on request.

Hazard pictogram(s) : None

Signal Word : None

Hazard statements: None

Precautionary statements - Prevention :

P264 Wash hands thoroughly after handling.

Precautionary statements - Response :

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

Precautionary statements - Storage :

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary statements - Disposal:

P501 Dispose of contents/container at a disposal facility in accordance with local regulations.

**In compliance with directives 67/548/EEC (DDP), 1999/45/EC and their amendments.** Hazard symbols :

Contains :

Risk phrase : None

Safety phrase:

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

#### **2.3. Other hazards**

Caution - spillages may be slippery. Alkaline

vPvB Substances : None ; PBT Substance: None.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable.

**3.2. Mixtures Composition :**

Name	ID	Classification		Concentration %
		According to 67/548/EEC	According to 1272/2008/EC (CLP)	
Lithium-silicate	CAS: 12627-14-4 EC: 235-730-0 REACH reg.: 01-2119899248-18	Xi, R36/37/38	GHS07 Skin Irrit. 2: H315, Eye Irrit. 2 H319; STOT SE 3 H335	10 <= x % < 18

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures**

As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing by an unconscious person.

**In case of contact with eyes :**

Wash thoroughly with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

**In case of skin contact :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

**In case of Ingestion :**

Do not induce vomiting. Wash out mouth with water and give 200-300 ml of water to drink. Obtain medical attention.

**In case of Inhalation :**

Remove patient from exposure, keep warm and at rest. Obtain medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

No specific hazards are encountered under normal product use.

**4.3. Indication of any immediate medical attention and special treatment needed**

Obtain immediate medical attention.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable Extinguishing Media :** Compatible with all standard firefighting techniques.

**Unsuitable extinguishing Media :** None known.

**5.2. Special hazards arising from the substance or mixture**

Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

**5.3. Advice for firefighters** No data available.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

Avoid any contact with the skin and eyes. Avoid inhaling mist.

**6.2. Environmental precautions**

Prevent any material from entering drains or waterways. If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**6.3. Methods and material for containment and cleaning up**

Caution - spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Wash with plenty of water. Transfer to a container for disposal or recovery.

**6.4. Reference to other sections** See also Section 8.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists. Do not eat or drink while working. Always wash hands after handling.

Handle in well-ventilated areas.

For personal protection, see section 8.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep at a temperature not exceeding 50 °C. Do not allow material to freeze. Keep the container tightly closed in a dry, well-ventilated place.

Unsuitable containers: Aluminum

See Also Section 10.data available.

**7.3. Specific end use(s)**

No data available.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

No occupational exposure limit available

**8.2. Exposure controls**

Safety equipment (eye protection, gloves, protective clothing) recommended to use during spraying. Do not use material if room has high humidity or poorly ventilated. Do not eat, drink or smoke during use. Remove and wash contaminated clothing.

**- Eye / face protection:**

Avoid contact with eyes. Not needed for normal use. Anyway, operate according good working practices.

**- Hand protection:**

The use of LLPDE (0,06 mm), nitrile (0,4) or butyl (0,5 mm) gloves is suggested.

Latex gloves are not recommended. Wear suitable protective gloves in the event of prolonged or repeated skin contact.

**- Body protection**

No special precaution must be adopted for normal use. Avoid skin contact.

Wear suitable protective clothing.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

Not needed for normal use. Avoid breathing mist. If the ventilation is insufficient, wear appropriate breathing apparatus.

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

Appearance Liquid. Colourless.

Odour Odourless.

Odour Threshold (ppm) Not applicable.

pH (Value) ~10 Alkaline.

Freezing Point (°C) Not applicable.

Melting Point (°C) Not applicable.

Boiling Point (°C) 100

Flash Point (°C) [Closed cup] Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable.

Explosive Limit Ranges Not applicable.

Vapour Pressure (mm Hg) Not applicable.

Vapour Density (Air=1) No data.

Density (g/ml) 1.15 g/cm<sup>3</sup> (20°C);

Solubility (Water) Soluble.

Solubility (Other) No data.

Partition Coefficient No data.

Auto Ignition Point (°C) Not applicable.

Decomposition Temperature (°C) Not applicable.

Viscosity (mPa. s) 10-30.

Explosive properties Not applicable.

Oxidising Properties Not applicable.

**9.2. Other information**

No data available.

## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1. Reactivity**

Stable under normal conditions

### **10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

### **10.3. Possibility of hazardous reactions**

This product will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air.  
Can react violently if in contact with acids.

### **10.4. Conditions to avoid**

Stable under normal conditions.

### **10.5. Incompatible materials:** Aluminum.

### **10.6 Hazardous decomposition products:** No data available.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

There is no toxicological data available on the mixture. Toxicological information of the main substances found in the mixture:

#### **Acute toxicity**

Ingestion: Lithium compounds may damage the central nervous system. A large dose may have the following effects: headache, nausea, dizziness, convulsions, kidney damage.

Inhalation: Mist is irritant to the respiratory tract.

Skin Contact: Repeated and/or prolonged skin contact may cause slight irritation.

Eye Contact: Liquid or mist may cause discomfort and mild irritation.

Skin corrosion/irritation: May irritate to skin.

Serious eye damage/irritation: May irritate to eyes.

Sensitisation: Not sensitising.

Mutagenicity: No data.

Carcinogenicity: IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

Reproductive toxicity: Lithium compounds - teratogenic effects have been observed in laboratory animals.

STOT - single exposure: Not classified.

STOT - repeated exposure: Not classified.

Aspiration hazard: Not classified.

#### **Mixture**

No toxicological data available for the mixture.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity**

Not available data on the mixture

Aquatic toxicity: the preparation is not to be considered toxic to the aquatic environment based on components.

LC50>100mg/l - aquatic species (calculated data following 1999/45/EC Directive).

Adopt good industrial practices, so that the product is not released into the environment.

### **12.2. Persistence and degradability**

No data available.

### **12.3. Bioaccumulative potential**

No data available.

### **12.4. Mobility in soil**

No data available.

### **12.5. Results of PBT and vPvB assessment**

No data available.

### **12.6. Other adverse effects**

No data available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14: TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 IMDG 2010 - ICAO/IATA 2011).

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**- Particular provisions:**

No data available.

**- German regulations concerning the classification of hazards for water (WGK):**

Germany: WGK 1 (VwVwS vom 27/07/2005, KBws)

**15.2. Chemical safety assessment**

No data available.

**SECTION 16: OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Title for H, EUH and R indications mentioned in section 3:**

R36/37/38 Irritating to eyes, respiratory system and skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Abbreviations:**

ADR/RID:	European Agreements on the transport of Dangerous goods by Road/Railway
IMDG:	International agreement on the Maritime transport of Dangerous Goods
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization
ECHA	European Chemicals Agency
EINECS	European Inventory of Existing Commercial chemical Substances
RID:	Regulations concerning the International carriage of Dangerous goods by rail.
WGK:	Wassergefährdungsklasse (Water Hazard Class).
CAS	Chemical Abstracts Service
CLP	Classification, labelling and packaging (Regulation (EC) No 1272/2008)
COPD	Chronic Obstructive Pulmonary Disease
EPA	Efficient Particulate Air filter
ES	Exposure scenario
EWC	European Waste Catalogue
OELV	Occupational exposure limit value
PBT	Persistent, bio-accumulative and toxic
PNEC	Predicted no-effect concentration
PROC	Process category
RE	Repeated exposure
REACH	Registration, Evaluation and Authorisation of Chemicals
RPE	Respiratory protective equipment
vPvB	Very persistent and very bioaccumulative