



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: DUROSEALER (product code: PU12)

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

Construction product. Low viscosity, polyurethane based primer / concrete sealer, for both porous & non-porous substrates, and for dry & wet concrete. For professional users only.

1.3. Details of the supplier of the safety data sheet

Company name: DUROSTONE Kft.

Address : 2038 Sósút Ipari park, 3508/23, Hungary

Telephone : +36 1 488 00 66

Email : info@durostone.hu

1.4. Emergency telephone number:

Telephone : +36 1 488 00 66 (Business hours only), Email : info@durostone.hu

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Acute Tox. 4 Inhalation – H332

Skin Corr. 2 – H315

Resp. Sens. 1 – H334

Skin Sens. 1 H317

Carc. 2 – H351

Flam. Liq. 3 – H226

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

R10

Carc. Cat. 3; R40

Xn; R20/21

Xi; R38

Xn ; R42/43

Full text of classes, H- EUH- and R- phrases: see section 16.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:



GHS08

GHS02

Signal Word: DANGER

Hazard statements:

H226 : Flammable liquid and vapour.

H351 : Suspected of causing cancer.

H315 : Causes skin irritation.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 : May cause an allergic skin reaction.

H332 : Harmful if inhaled.

EUH204: Contains isocyanates. May produce an allergic reaction

Precautionary statements - Prevention:

- P280: Wear protective gloves, protective clothing, eye protection, face protection.
- P285: In case of inadequate ventilation wear respiratory protection.
- P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical, ventilating, lighting, equipment.
- P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
- P264: Wash thoroughly after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.

Precautionary statements - Response:

- P321: Specific treatment (see on this label).
- P370+P378: In case of fire: Use all extinguishing media for extinction.
- P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
- P302+P352: IF ON SKIN : Wash with plenty of soap and water.
- P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
- P308+P313: If exposed or concerned : get medical advice.
- P312: Call a POISON CENTER or doctor if you feel unwell.
- P333+P313: If skin irritation or rash occurs : Get medical advice.
- P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor.
- P363: Wash contaminated clothing before reuse.

Precautionary statements - Storage:

- P403+P235: Store in well-ventilated place. Keep cool.
- P405: Store locked up.

Precautionary statements - Disposal:

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

Contains: Xylene (EC:215-535-7) - Methylenediphenyl diisocyanate isomers and homologues (EC: 202-966-0)

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

Hazard symbols:



Xn Harmful

Risk phrases:

- R 10 Flammable.
- R 20/21 Harmful by inhalation and in contact with skin.
- R 38 Irritating to skin.
- R 40 Limited evidence of a carcinogenic effect.
- R 42/43 May cause sensitization by inhalation and skin contact.

Safety phrases:

- S23 Do not breathe gas/fumes/vapour/spray
- S25 Avoid contact with eyes.
- S36/37 Wear suitable protective clothing and gloves.
- S40 To clean the floor and all objects contaminated by this material, use xylene.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

2.3. Other hazards

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)	
Xylene	EC: 215-535-7 CAS: 1330-20-7	R10 Xn; R20/21 Xi; R38	GHS02, GHS07 Warning Flam. Liq. 3 H226 Acute Tox. 4 (skin) H312 Acute Tox. 4 (inhal) H332 Skin Irrit. 2 H315	50 <= x < 100
Methylenediphenyl diisocyanate isomers and homologues	EC: 202-966-0 CAS: 101-68-8	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43	GHS07, GHS08 Danger Resp. Sens. 1 H334 Acute Tox. 4 (inhal) H332 Carc. 2 H351 Eye irrit 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335 Skin Sens. 1 H317	2,5 <= x < 5

Full text of R-, H- and EUH phrases: see section 16.

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 the event of exposure by inhalation:

In the event of inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of splashes or contact with eyes:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Obtain medical attention if pain, blinking or redness persist.

In the event of splashes or contact with skin:

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

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing:

Do not induce vomiting. In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention, showing the label.

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

Danger of serious damage to health by prolonged exposure through inhalation.

Suspected of causing cancer.

Causes skin irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurized containers from bursting.

Suitable extinguishing Media: -water mist, halon, foam, multipurpose ABC powder, carbon dioxide (CO2)

Unsuitable methods of extinction: water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

5.3. Advice for firefighters

Do not enter fire area without proper protective equipment, including respiratory protection. Prevent the effluent of fire-fighting measures from entering drains or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under sections 7 and 8.

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapours.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spills and put it into appropriated container.

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.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention:

Handle in well-ventilated areas.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Prevent access by unauthorized personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep the container tightly closed in a dry, well-ventilated place

Keep away from food and drink, including those for animals.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight

Avoid accumulation of electrostatic charges.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No relevant data available

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

Eye / face protection

Use eye protectors designed to protect against liquid splashes.

Before handling, wear safety goggles in accordance with standard EN166.

Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

Body protection

Wear suitable protective clothing.

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

Respiratory protection

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387: - A1 (Brown)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Liquid.

Colour: Colourless, transparent

Odour: Characteristic

pH: Not relevant.

Boiling point: 145-250 °C

Flash Point Interval: 28°C

Vapour pressure: No data available.

Explosion limits: No data available.

Relative density: 0.9 – 1.0

Water solubility: Insoluble.
Log Pow octanol / water at 20°C : No data available.
Solubility Organic solvents.
Viscosity: 40 - 50 mPa.s (23°C)

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

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid:

- accumulation of electrostatic charges.
- heating
- heat
- flames and hot surfaces

10.5. Incompatible materials

Keep away from:

- strong acids
- strong oxidizing agents

10.6. Hazardous decomposition products

May release flammable gases. Fumes

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No toxicological data available for the mixture.

Acute toxicity :

Harmful in contact with skin.

Irritation :

Causes skin irritation.
May cause respiratory irritation.

Sensitization :

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Mutagenicity :

Not established.

Carcinogenicity :

Suspected of causing cancer.

Toxic for reproduction :

Not established.

STOT-single exposure :

Not established.

STOT-repeated exposure :

Not established.

Aspiration hazard :

Not established.

SECTION 12: ECOLOGICAL INFORMATION

The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

12.1. Toxicity

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

Biodegradable

12.3. Bio accumulative potential

Not established.

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

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste:

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Soiled packaging:

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

Handle empty containers with care because residual vapours are flammable.

SECTION 14: TRANSPORT INFORMATION

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 2012).

14.1. UN number

1139

14.2. UN proper shipping name

UN1139= COATING SOLUTION (includes surface treatments or coatings used for industrial or other purposes such as vehicle under coating, drum or barrel lining)

14.3. Transport hazard class(es)

- Classification:



3

Danger labels – 3 Flammable liquid

Hazard identification number (Kemler No.): - 30

Classification code: F1

Tunnel restriction code: D/E

14.4. Packing group

III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical safety assessment

It has not been carried out.

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.

Revision:

The safety data sheet has been revised in accordance with the 453/2010/EU regulation. This new version contains classification according to CLP based on datasheet of ingredients.

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.
- CAS Chemical Abstracts Service
- CLP Classification, labelling and packaging (Regulation (EC) No 1272/2008)
- COPD Chronic Obstructive Pulmonary Disease
- DNEL Derived no effect level
- 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

Full text of classifications, H, EUH and R phrases mentioned in section 2. and section 3:

Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — single exposure Category 3
STOT RE 1	Specific target organ toxicity — repeated exposure Category 1
Acute Tox. 4 Inhalation	Acute toxicity, Inhalation - Category 4
Skin Corr. 2	Skin irritation - Category 2
Resp. Sens. 1	Respiratory sensitization - Category 1
Skin Sens. 1	Skin sensitisation - Category 1
Carc. 2	Carcinogenicity - Category 2
Flam. Liq. 3	Flammable liquids - Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H226	Flammable liquid and vapour

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
R 10	Flammable.
R 20	Harmful by inhalation.
R 20/21	Harmful by inhalation and in contact with skin.
R 36/37/38	Irritating to eyes, respiratory system and skin.
R 38	Irritating to skin.
R 40	Limited evidence of a carcinogenic effect.
R 42/43	May cause sensitization by inhalation and skin contact.
R 48/20	Harmful : danger of serious damage to health by prolonged exposure through inhalation.