

# SDS SHEET

[In accordance with the regulation no 1907/2006 (Reach) and 453/210]

## SECTION 1

### Identification

Product identifier Gard-Deck ® 430 Joint Grouting

Other means of identification Not determined

Recommended use: Coating

Manufacturer: Hydro-Gard, LLC

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Incident Spill, Leak, Fire, Exposure, or Accident CHEMTREC Day or Night  
1-800-424-9300 / +1 703-527-3887 **CCN 825652**

## SECTION 2

### Hazard (s) Identification

Classification of substance or mixture Classification according to 1272/2008/EC -Flammable Liquid 2 H225, Skin Irritant 1 H317, Eye Irritant 2 H319, STOT SE 3 H335, STOT RE 2 H373 Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Physical Hazards Highly flammable liquid and vapor.

Health Hazards Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

Environmental hazards Not classified

Label elements



Signal Word Danger

Product Identifier Methyl Methacrylate, dibutyl maleate, 2-ethylhexyl acrylate, butyl methacrylate

Hazard Statements:

H225 Highly flammable liquid and vapor

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H373 May cause damage to organs through prolonged or repeated exposure.

## Precautionary statements

|                    |  |
|--------------------|--|
| P210               | Keep away from heat/sparks/open flames/hot surfaces - No Smoking   |
| P280               | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P304 + P340        | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention  |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P314               | Get medical advice/attention if you feel unwell.   |
| Other hazards:     | The components of this mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.                  |

## SECTION 3

## Composition / Information on Ingredients

|            |  |
|------------|--|
| Substances | Not applicable   |
| Mixtures   | Chemical characterization: Mixtures, methyl methacrylate, dibutyl maleate, 2-ethylhexyl acrylate, butyl methacrylate |

### Dangerous ingredients:

| Chemical name                              | Classification acc to 1272/2008/   | Identifier Codes  | %      |
|--|--|---|--------|
| Methyl methacrylate                        | 1272/2008/ EC: Flam. Liquid Skin Irritant. 2H315, Skin Sens. 1 H317, STOT SE 3 H335                    | CAS: 80-62-6<br>EINECS: 201-297-1<br>Index Number: 607-035-00-6<br>Reach number: 01-2119452498-28-XXXX    | 25-50% |
| N.N-Di-(2hydroxyethyl)-p-toluidin          | 1272/2008/ WE: Acut Tox. 4 H302, skin irrit 2 H315, Eye Dam 1 H318                                     | CAS: 3077-12-1<br>EINECS:221-359-1<br>Index Number:<br>Reach Reg number: -                                | <2.5%  |
| Naphtha (Erdöl), Hydrodesulfuriert, schwer | 1272/2008/ WE: Flam. Liq. 3 H226, Asp. Tox. 1H304, STOT SE 3 H336, Aquatic Chronic 2 H411              | CAS: 64742-82-1<br>EINECS:265-185-4<br>Index Number: 649-330-00-2<br>Reach Reg number: -                  | <1%    |
| 2-Ethylhexylacrylat                        | 1272/2008/ EC: Skin Irritant 2 H315, Skin Sens. 1 H317, STOT SE 3 H335                                 | CAS: 103-11-7<br>EINECS: 203-080-7<br>Index Number: 607-107-00-7<br>REACH Reg. Nr.: 01-2119453158-37-XXXX | 1-10%  |
| Dibutylmaleat                              | 1272/2008/WE: STOT RE 2 H373, Skin Sens. 1 H317  | CAS: 105-76-0<br>EINECS: 203-328-4<br>Index Number: -<br>REACH Reg. Nr. : 01-2119523581-45-XXXX           | 10-25% |
| n-Butylmethacrylat                         | 1272/2008/WE:Flam Liq. 3 H226, Skin Irrit 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, STOT SE 3 H335 | CAS:97-88-1<br>EINECS:202-615-1<br>Indexnumber:607-033-00-5<br>REACH Reg. Nr. :01-219486934-28-XXXX       | 1-10%  |

## SECTION 4

### First - Aid Measures

|   |   |
|---|---|
| General Information:  | Take off contaminated clothing immediately. Move the victim to fresh air.   |
| Inhalation:   | Consult a doctor if disturbing symptoms appear. Move the victim to fresh air. Keep victim warm and calm.  |
| Skin Contact:   | Wash the contaminated skin thoroughly with plenty of water. Consult a doctor if disturbing symptoms appear.   |
| Eye contact:  | Protect the non-irritated eye, remove contact lenses. Wash the contaminated eye with plenty of water for several minutes. Avoid powerful water stream-risk of cornea damage. Consult a doctor if disturbing symptoms appear.  |
| Ingestion:  | Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor immediately, show the container or label.   |
| Most important symptoms and effects, both acute and delayed                 | The product may trigger sensitization of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Extended medical treatment may be required depending on the degree of exposure and the severity of the symptoms. |
| Indication of any immediate medical attention and special treatment needed: | Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.  |

## SECTION 5

### Fire - Fighting Measures

|   |   |
|---|---|
| Extinguishing media                                   |   |
| Suitable extinguishing media:                         | CO <sub>2</sub> , sand, extinguishing powder. Do not use water.   |
| Unsuitable extinguishing media:                       | Water jet - risk of the propagation of the flame.   |
| Special hazards arising from the substance or mixture | During fire, the product may produce toxic fumes of carbon oxides, nitric oxides. Do not inhale combustion products, they can be dangerous for human health.  |
| Advice for fire fighters                              | Highly flammable liquid and vapor. High temperature may trigger polymerization. Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters. |

## SECTION 6

### Accidental Release Measures

|   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | Use personal protective measures. Ensure adequate ventilation. Avoid skin and eyes contamination. Do not breathe vapors. Keep away from sources of ignition.   |
| Environmental precautions   | Do not allow product to reach sewage system, water bodies or ground/soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.   |
| Methods and material for containment and cleaning up                | Collect with liquid absorbing materials (e.g. soil, sand, silica, universal binding agent, vermiculite, etc.) and place it in labeled containers. Do not flush with water or aqueous cleaning agents. Collect in a suitable container. Treat the collected material as waste. Clean the contaminated place and ventilate it. |
| Reference to other sections:  | Appropriate conduct with waste product - Section 13. Personal protective equipment - see Section 8.  |

**SECTION 7****Handling and Storage****Precautions for safe handling**

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Do not breathe vapors. Before break and after work wash hands. Use only in accordance with the identified purpose. Keep away from ignition sources. Do not eat, drink or smoke when using this product. Protect against electrostatic charges. Use only non-sparking tools. Ensure good interior ventilation, especially at floor level.

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

Keep in a dry, cool and well-ventilated area. Keep away from high temperatures and direct sunlight. Temperature recommended for storage: 41 °F - 77 °F (5 - 25 °C). Keep containers tightly sealed. Store only outside or in explosion proof rooms.

**Specific and use (s)**

No information about other use than those mentioned in Section 1.2

**SECTION 8****Exposure Controls / Personal Protection****Control Parameters**

Components with Community workplace exposure limits:

|  |                           |         |
|--|---------------------------|---------|
| Methyl methacrylate (50-100%) CAS 80-62-6  | Limit value - Eight hours | 50 ppm  |
| Methyl methacrylate (50-100%) CAS 80-62-6  | Limit value - Short term  | 100 ppm |
| Legal basis: Commission Directive 2006/15/EC<br>Please check any national occupational exposure limit values in your country |                           |         |

**DNEL and PNEC for methyl methacrylate (CAS 80-62-6)**




| DNEL                                   | ORAL | INHALATION             | DERMAL                 |
|--|------|------------------------|------------------------|
| Workers, long-term, local effects      | 1    | 210 mg/m <sup>3</sup>  | 1.5 mg/cm <sup>3</sup> |
| Workers, long-term, systemic effects   | 1    | 210 mg/m <sup>3</sup>  | 13.67mg/kg KG/day      |
| Workers, acute, local effects          | 1    | <sup>2</sup>           | 1.5 mg/cm <sup>3</sup> |
| Workers, acute, systemic effects       | 1    | <sup>2</sup>           | -                      |
| Consumers, long-term, local effects    | 1    | 105 mg/m <sup>3</sup>  | 1.5 mg/cm <sup>3</sup> |
| Consumers, long-term, systemic effects | 1    | 74.3 mg/m <sup>3</sup> | 8.2mg/kg KG/Tag        |
| Consumers acute, local effects         | 1    | <sup>2</sup>           | 1.5 mg/cm <sup>3</sup> |
| Consumers, acute, systemic effects     | 1    | <sup>2</sup>           |                        |

1) low oral toxicity: DNEL not calculated

2) Long-term DNEL

| Comment         | PNEC       |
|-----------------|------------|
| PNEC Freshwater | 0.94 mg/l  |
| PNEC Seawater   | 0.094 mg/l |
| PNEC Sediment   | 5.74 mg/kg |
| PNEC Soil       | 1.47 mg/kg |

|                   |   |
|-------------------|---|
| Exposure Controls | Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands carefully. Keep away from foodstuffs, beverages and food. Take off contaminated clothing immediately. Avoid contact with skin and eyes. Protective clothing should be stored separately. |
|-------------------|---|

|   |  |
|---|--|
| <p>Hand protection</p>         | <p>Only use chemical-protective gloves with CE-labeling of category III: Nitrile rubber, Butyl rubber. Recommended thickness of material: <math>\geq 0,5</math> mm</p> <p>The section of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p><a href="http://www.gisbau.de/service/epoxi/expotab.html">www.gisbau.de/service/epoxi/expotab.html</a></p> |
| <p>Eye protection</p>          | <p>Use tightly fitting protective glasses</p>  |
| <p>Respiratory protection</p>  | <p>Recommended filter device for short term use; Combination filter A-P2</p>   |
| <p>Body Protection</p>  | <p><u>Protective clothing necessary</u></p> <p>Applied personal protective equipment must comply with requirements of the Directive 89/686/EC. The employer is obliged to provide protective equipment relevant to performed activities and in accordance with all quality requirements, including its maintenance and cleaning.</p>   |
| <p>Environmental exposure controls</p>  | <p>Do not allow large quantities of the product to contaminate ground water, canalization, sewages or soil.</p>  |

## SECTION 9

## Physical and Chemical Properties

Information on basic physical and chemical properties

|  |                               |
|--|-------------------------------|
| Physical State:                              | Liquid                        |
| Color:                                       | Blue                          |
| Odor:  | Characteristic                |
| Odor threshold:                              | Not determined                |
| pH:  | Not determined                |
| Melting point/freezing point:                | Not determined                |
| Initial boiling point and boiling range:     | 212 °F (100°C)                |
| Flash point:                                 | 50° F (10°C) (MMA, DIN 51755) |
| Ignition Temperature:                        | 806°F (430°C)                 |
| Evaporation Rate:                            | Not Determined                |
| Flammability (solid, gas)                    | Not Applicable                |
| Upper/Lower Flammability or Explosive Limits | 12,5 Vol %/0,8 Vol. %         |

|   |  |
|---|--|
| Vapor Pressure (68°F (20°C))            | 38.7 hPa   |
| Vapor Density                           | Not Determined   |
| Density (68°F (20°C))                   | 1 g/cm <sup>3</sup>  |
| Solubility (ies)(water)                 | max 16 g/l   |
| Solubility(ies): (organic solvents)     | Soluble in many organic solvents   |
| Partition Coefficient: n-octanol/water: | Not Determined   |
| Auto-Ignition Temperature:              | Not Applicable   |
| Decomposition Temperature:              | Not Determined   |
| Explosive Properties:                   | Product is not explosive. However, formation of explosive sir/steam mixtures is possible |
| Oxidizing Properties:                   | Not Determined   |
| Viscosity:dynamic (73.4°F (23°C))       | 200-600 mPas (Brookfield Spindel 63,12 U/min)  |
| Other Information:                      | VOC 0,01%  |

## SECTION 10 Stability and Reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | High temperature may trigger polymerization.                                    |
| Chemical stability                 | The product is stable under normal conditions of use and storage.               |
| Possibility of hazardous reactions | Violent reactions with strong alkalis and oxidizing agents. Reacts with amines. |
| Condition to avoid                 | Avoid heat sources and direct exposure to sunlight.                             |
| Incompatible materials             | Acids, strong oxidizing agents  |
| Hazardous decomposition products   | In the event of fire: toxic gases and vapors, inflammable gases/vapors          |

## SECTION 11 Toxicological Information

Information on toxicological effects

Acute toxicity:

| Methylmethacrylat, CAS 80-62-6                        |                                     |                                       |       |
|---|-------------------------------------|---------------------------------------|-------|
| Oral  | LD <sub>50</sub>                    | >5000 mg/kg                           | (rat) |
| Dermal  | LD <sub>50</sub><br>DNEL (Langzeit) | >5000 mg/kg<br>74.3 mg/m <sup>3</sup> | (rab) |
| Inhalativ   | LD <sub>50</sub><br>DNEL (Langzeit) | 29.8 mg/l/4h<br>210 mg/m <sup>3</sup> | (rat) |
| N,N-Bis-(2-hydroxypropyl)-p-touluidin, CAS 38668-48-3 |                                     |                                       |       |
| Oral  | LD <sub>50</sub>                    | 100 mg/kg                             | (rat) |

Toxicity of the product:

|                               |  |
|-------------------------------|--|
| Acute Toxicity                | ATEmix (oral) >2000 mg/kg. Based on available data, the classification criteria are not met. |
| Skin Corrosion/Irritation     | Causes skin irritation.  |
| Serious Eye Damage/Irritation | Causes serious eye irritation  |

|                                   |  |
|-----------------------------------|--|
| Respiratory or skin Sensitization | May cause an allergic skin reaction                                |
| Germ Cell Mutagenicity            | Based on available data, the classification criteria are not met.  |
| Carcinogenicity                   | Based on available data, the classification criteria are not met.  |
| Reproductive toxicity             | Based on available data, the classification criteria are not met.  |
| STOT-single exposure              | May cause respiratory irritation                                   |
| STOT-repeated exposure            | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration Danger                 | Based on available data, the classification criteria are not met.  |

## SECTION 12 Ecological Information (non-mandatory)

### Toxicity

#### Aquatic toxicity:

|   |   |  |
|---|---|--|
| Methylmethacrylat, CAS 80-62-6                        |   |  |
| Algae toxicity  | EC <sub>50</sub> >110 MG/l/72h                  | Selenastrum capricornutum, (OECD 201)  |
| Bacterial toxicity                                    | EC <sub>3</sub> 100 mg/l/16h                    | Pseudomonas putida   |
| Daphnia toxicity                                      | EC <sub>50</sub> 69 mg/l/48h<br>NOEC 37mg/l     | Daphnia magna, (OECD 202)<br>Daphnia magna, (OECD 202 Part 2, 21d)                     |
| Fish toxicity   | LC <sub>50</sub> > 79 mg/l/96h<br>NOEC 9.4 mg/l | Onchorhynchus mykiss, (OECD 203)<br>Danio rerio, (OECD 210 fish early life stage test) |
| BSB5  | 0,14 g/g  |  |
| N, N-Bis-(2-hydroxypropyl)-p-toluidin, CAS 38668-48-3 |   |  |
| Daphnia toxicity                                      | EC50 28.8 mg/l                                  | Daphnia magna  |
| Fish toxicity   | LC <sub>50</sub> 17 mg/l                        | Danio rerio  |
| BSB5  | 11 mg O <sub>2</sub> / g                        |  |

|                                    |  |
|------------------------------------|--|
| Persistence and degradability      | Easily biodegradable                       |
| Bioaccumulative potential          | Low bioaccumulative potential              |
| Mobility in soil                   | No further relevant information available  |
| Results of PBT and vPvB assessment | Not applicable                             |
| Other adverse effects              | No further relevant information available. |

## SECTION 13 Disposal Consideration (non-mandatory)

|                                    |  |
|------------------------------------|--|
| Waste treatment methods            | Disposal methods for the product: disposal in accordance with the local legislation. Store residues in original containers.  |
| Disposal methods for used packing: | Reuse/recycle/liquidate empty containers in accordance with the legislation in force. Only containers completely empty can be recycled.<br><br>Legal basis: Directive 2008/98/EC, 94/92/EC |
| European Waste catalogue:          |  |

|          |   |
|----------|---|
| 08 00 00 | Wastes FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 02 00 | wastes from MFSU of other coatings (including ceramic materials)  |
| 08 02 99 | wastes not otherwise specified  |

## SECTION 14 Transport Information (non-mandatory)

UN Number

ADR, IMDG, IATA 1866

UN proper shipping name

ADR RESIN SOLUTION

IMDG, IATA RESIN SOLUTION

Transport hazard class(es)

ADR 3 (F1) Flammable liquids

IMDG, IATA 3 Flammable liquids



Packing Group II

Environmental Hazards Marine Pollutant: No

Special Precautions for User Kemier-Number: 33  
EMS-Number: F-E,S-E

Transport Bulk According to Annex II of MARPOL 73/78 and the IBC Code - Not applicable  
Transport/Additional information: ADR

Accepted Quantities: E2

Limited quantities (LQ): 5 L

Transport category: 2

Tunnel restriction code: D/E

UN "Model Regulations": UN1866, RESUB SOLUTION, 3, II

## SECTION 15 Regulatory Information (non-mandatory)

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances.



Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labeling of dangerous preparations.

Commission Regulation (EC No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures.

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures

## SECTION 16

## Other Information, Including date of preparation or last revision

This data is 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.

### H-phrases:

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapor               |
| H226 | Flammable liquid and vapor                      |
| H302 | Harmful if swallowed                            |
| H304 | May be fatal if swallowed or enters airways     |
| H315 | Causes skin irritation                          |
| H317 | May cause an allergic skin reaction             |
| H318 | Causes serious eye damage                       |
| H319 | Causes serious eye irritation                   |
| H335 | May cause respiratory irritation                |
| H336 | May cause drowsiness or dizziness               |
| H411 | Toxic to aquatic life with long lasting effects |

### Clarification of aberrations and acronyms

|            |  |
|------------|--|
| PBT        | Persistent, Bioaccumulative and toxic substance  |
| vPvB       | Very Persistent, very Bioaccumulative substance  |
| ADR        | Accord to European sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Rail) |
| IMDG       | International Maritime Code fro Dangerous Goods  |
| IATA       | International Air Transport Association  |
| ICAO       | International Civil Aviation Organization  |
| GHS        | Globally Harmonized System of Classification and Labeling of Chemicals   |
| GefStoffV  | Ordinance on Hazardous Substances, Germany   |
| LC50       | Lethal concentration, 50 percent   |
| LD50       | Lethal dose, 50 percent  |
| Other Data | Classification was based on data on hazardous substances calculation method under the guidance of Regulation 1272/200/EC (CLP).                                  |

The information and recommendations provided in this Safety Data Sheet are presented in good faith and believed to be correct as of the date hereof. The manufacturer makes no representations as to the completeness or accuracy thereof. Information supplied upon the condition that the persons receiving said information will make their own determination as to its suitability for their particular purpose prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representation or warranties, either expressed or implied. Including the merchantability or fitness for a particular purpose are made herein with information contained herein is deemed to be reliable, conservative and accurate. Hydro-Gard, LLC reserves the right to change the design, specification or any other features at any time, without notice, while otherwise maintaining regulatory compliance.

End of Safety Data Sheet