1. Identification

Product name : Sikalastic® Duochem-391 Part B

Supplier : Sika Corporation

Address : 201 Polito Avenue
Lyndhurst, NJ 07071
USA
www.sikausa.com

Telephone : (201) 933-8800
Telefax : (201) 804-1076
Emergency telephone : CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887
ehs@sika-corp.com

Recommended use of the chemical and restrictions on use : For further information, refer to the product technical data sheet.

2. Hazards identification

GHS Classification

Acute toxicity , Category 4 (Inhalation) H332: Harmful if inhaled.
Skin irritation , Category 2 H315: Causes skin irritation.
Eye irritation , Category 2A H319: Causes serious eye irritation.
Respiratory sensitization , Category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization , Category 1 H317: May cause an allergic skin reaction.
Specific target organ systemic toxicity - single exposure , Category 3, Respiratory system H335: May cause respiratory irritation.
Specific target organ systemic toxicity - repeated exposure , Category 2 (Inhalation) H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

GHS Label element

Signal Word : Danger

Hazard pictograms : 

Hazard Statements : 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.
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary Statements:

Prevention:
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin 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.
P280 Wear eye protection/ face protection.
P280 Wear protective gloves.
P285 In case of inadequate ventilation wear respiratory protection.

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.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
P362 Take off contaminated clothing and wash before reuse.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethanediisocyanate, isomers and homologues (MDI)</td>
<td>9016-87-9</td>
<td>&gt;= 50 - &lt;= 100 %</td>
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</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures
If inhaled: Move to fresh air. Consult a physician after significant exposure.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact: Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed:
- irritant effects
- sensitizing effects

- Asthmatic appearance
- Cough
- Respiratory disorder
- Allergic reactions
- Excessive lachrymation
- Erythema
- Headache
- Dermatitis

See Section 11 for more detailed information on health effects and symptoms.

Protection of first-aiders: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

Notes to physician: Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific extinguishing methods: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, : Use personal protective equipment.
7. Handling and storage

Advice on safe handling: Avoid formation of aerosol.
Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage: Store in original container.
Keep in a well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Store in accordance with local regulations.

Materials to avoid: no data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Engineering measures: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection
Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

9. Physical and chemical properties

Appearance : liquid
Color : brown
Odor : mild musty
Odor Threshold : no data available
Flash point : > 392 °F (> 200 °C)
Autoignition temperature : > 752 °F (> 400 °C)
Decomposition temperature : no data available
Lower explosion limit (Vol%) : no data available
Upper explosion limit (Vol%) : no data available
Flammability (solid, gas) : no data available
Oxidizing properties : no data available
Autoignition temperature : no data available
pH : no data available
Melting point/range / : no data available
Freezing point
Initial boiling point and boiling range : 406 °F (208 °C)
Vapor pressure : no data available
Density : ca.1.24 g/cm³
at 73 °F (23 °C)
Water solubility : Note: slightly soluble
Partition coefficient: n-octanol/water : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : ca.> 20.5 mm²/s
at 104 °F (40 °C)
Relative vapor density : no data available
Evaporation rate : no data available
Burning rate : no data available
Volatile organic compounds (VOC) content : 1 g/l
A+B Combined

10. Stability and reactivity
Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : The product is chemically stable.
Possibility of hazardous reactions : Stable under recommended storage conditions.
Conditions to avoid : no data available
Incompatible materials : no data available

11. Toxicological information
Acute toxicity
Product
Acute oral toxicity : no data available
Acute inhalation toxicity : Harmful if inhaled.
Acute dermal toxicity : no data available

Skin corrosion/irritation
Product
Causes skin irritation.

Serious eye damage/eye irritation
Product
Causes serious eye irritation.

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

Germ cell mutagenicity
Product
Mutagenicity: no data available

Carcinogenicity
Product
Carcinogenicity: no data available

IARC
not applicable
NTP
not applicable

Reproductive Toxicity/Fertility
Product
Reproductive toxicity: no data available

Reproductive Toxicity/Development/Teratogenicity
Product
Teratogenicity: no data available

STOT-single exposure
Product
Assessment: May cause respiratory irritation.

STOT-repeated exposure
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Product
Assessment: May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity
Product
no data available
12. Ecological information

Other information  Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

13. Disposal considerations

Disposal methods

Waste from residues  : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging  : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT  
Not dangerous goods

IATA  
Not dangerous goods

IMDG  
Not dangerous goods

Special precautions for user  
no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
not applicable

15. Regulatory information

TSCA list  : On TSCA Inventory

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity  
This material does not contain any components with a CERCLA RQ.
SARA304 Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards
- Acute Health Hazard
- Chronic Health Hazard

SARA 302
- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313
- SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307.

California Prop 65
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. Other information

HMIS Classification

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<td>Personal Protection</td>
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Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.
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Revision Date 10/07/2013

Material number: 460265