



The Chemical Company

Safety Data Sheet

ELASTOCAST®S 55090R RESIN

Revision date : 2013/05/31

Version: 3.0

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(30246356/SDS GEN_US/EN)

1. Product and Company Identification

Company

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Chemical family:

resin

Synonyms:

URETHANE SYSTEM RESIN COMPONENT

2. Hazards Identification

Emergency overview

CAUTION:

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.
CONTAINS MATERIAL WHICH CAN CAUSE CENTRAL NERVOUS SYSTEM DAMAGE.
SENSITIZER.

May be harmful if absorbed through skin.
MAY BE HARMFUL IF SWALLOWED.

State of matter: liquid

Colour: black

Odour: faint odour, amine-like

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Ingestion may cause gastrointestinal disturbances.

Irritation / corrosion:

Irritating to respiratory system. Irritating to eyes and skin.

Assessment other acute effects:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Sensitization:

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The chemical structure does not suggest a sensitizing effect.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Repeated dose toxicity: Repeated dermal uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects. Repeated oral uptake of the substance did not cause substance-related effects.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect.

Medical conditions aggravated by overexposure:
Individuals with pre-existing diseases of the skin, respiratory disorders or impaired function for the liver/kidneys may have increased susceptibility to excessive exposures.

Signs and symptoms of overexposure:

Eye irritation, skin irritation
Symptoms can appear later.

Potential environmental effects

Aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Degradation / environmental fate:

Poorly biodegradable.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
111-46-6	< 70.0 %	Polyol
68479-98-1	< 10.0 %	Diethylene glycol
25265-71-8	< 10.0 %	Diethylmethybenzenediamine
	< 3.0 %	Dipropylene Glycol
	< 5.0 %	Drying agent
	< 5.0 %	Catalyst
107-21-1	6.0 %	ethylene glycol
	< 7.0 %	Pigment dispersion
	< 5.0 %	Additive

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. Immediate medical attention required.

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If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Note to physician:

Antidote:

Administration of ethanol may counteract the effects of ethylene glycol, such as metabolic acidosis and renal damage. 4-Methylpyrazole (a competitive inhibitor of alcohol dehydrogenase) can be used as an antidote in ethylene glycol poisoning.

5. Fire-Fighting Measures

Flash point: > 100 °C

(Unspecified)

Autoignition: > 250 °C

Lower explosion limit:

For liquids not relevant for classification and labelling. The lower explosion point may be 5 - 15 °C below the flash point.

Upper explosion limit:

For liquids not relevant for classification and labelling.

Flammability: not flammable

Self-ignition temperature:

not self-igniting

Suitable extinguishing media:

water spray, dry powder, carbon dioxide, foam

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing.

Environmental precautions:

This product is regulated by CERCLA ('Superfund').

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

Further information:

High risk of slipping due to leakage/spillage of product.

7. Handling and Storage

Handling

General advice:

Ensure thorough ventilation of stores and work areas.

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Protection against fire and explosion:
No explosion proofing necessary.

Storage

General advice:
No special precautions necessary.

Storage incompatibility:
General advice: Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.

Storage stability:
Storage temperature: 60 - 100 °F
Protect against moisture.

8. Exposure Controls and Personal Protection

Components with occupational exposure limits

ethylene glycol
ACGIH TLV value 100 mg/m3 aerosol ;

Advice on system design:
Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists.

General safety and hygiene measures:
Avoid contact with skin. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapours/mists. Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	faint odour, amine-like	
Colour:	black	
pH value:	7	
Freezing point:	0.0 °C	
Boiling point:	100 °C	(5 mmHg)
Vapour pressure:	< 10 mbar	(20 °C)
Density:	1.0185 g/cm3	(25 °C)
Bulk density:	8.5 lb/USg	(25 °C)
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:	500 mPa.s	(25 °C)
Solubility in water:		slightly soluble
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

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10. Stability and Reactivity

Conditions to avoid:

> 80 degrees Fahrenheit
Avoid moisture.

Substances to avoid:

acids, oxidizing agents, isocyanates

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity

Information on: diethylmethylbenzenediamine

Assessment of acute toxicity:

The substance/product can be absorbed through the skin in toxic amounts.

Information on: Ethylene glycol

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Of low toxicity after short-term skin contact.

Information on: Dipropylene glycol

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Information on: diethylene glycol

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact.

May be fatal if swallowed.

Oral:

Information on: diethylmethylbenzenediamine

Type of value: LD50

Species: rat

Value: 738 mg/kg (OECD Guideline 401)

Information on: polyetherdiamine

Type of value: LD50

Species: rat

Value: 480 mg/kg

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Information on: Additive
Type of value: LD50
Species: rat
Value: 1,380 mg/kg

Irritation / corrosion

Information on: Polyol
Assessment of irritating effects:
Contact may result in skin irritation. Contact may result in eye irritation.

Information on: Ethylene glycol
Assessment of irritating effects:
Not irritating to eyes and skin.

Skin:

Information on: polyetherdiamine
Species: rabbit
Result: Corrosive.
Method: Draize test

Eye:

Information on: diethylmethylbenzenediamine
Species: rabbit
Result: Irritant.

Information on: polyetherdiamine
Species: rabbit
Result: Corrosive.

Sensitization

Information on: diethylmethylbenzenediamine
Assessment of sensitization:
Sensitization after skin contact possible.

Information on: polyetherdiamine

Result: Skin sensitizing effects were not observed in animal studies.

Repeated dose toxicity

Information on: Ethylene glycol
Assessment of repeated dose toxicity:
The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

Information on: Dipropylene glycol
Assessment of repeated dose toxicity:
The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the kidney after repeated ingestion of high doses, as shown in animal studies.

Information on: diethylene glycol
Assessment of repeated dose toxicity:

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*The substance may cause damage to the kidney after repeated ingestion.
The substance may cause damage to the liver after repeated ingestion.*

Carcinogenicity

*Information on: diethylmethylbenzenediamine
The chemical structure suggests a carcinogenic potential.*

Development:

*Information on: diethylene glycol
No indications of a developmental toxic / teratogenic effect were seen in animal studies.
Information on: Ethylene glycol
The potential to cause toxicity to development cannot be excluded when given in high doses.*

Aspiration Hazard:

No aspiration hazard expected.

Other Information:

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
*Information on: diethylmethylbenzenediamine
danger of serious health hazards by longer exposure (subchronic, rat, oral)*

12. Ecological Information

Fish

*Information on: diethylmethylbenzenediamine
Acute:
DIN 38412 Part 15 static
Leuciscus idus/LC50 (96 h): 194 mg/l*

Aquatic invertebrates

*Information on: diethylmethylbenzenediamine
Acute:
Daphnia test acute Daphnia magna/EC50 (48 h): 0.5 mg/l*

Microorganisms

Information on: diethylmethylbenzenediamine

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Poorly biodegradable.

*Information on: diethylmethylbenzenediamine
Test method: OECD 301D; EEC 92/69, C.4-E
Degree of elimination: < 1.0 % (28 d)*

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Evaluation: *Not readily biodegradable (by OECD criteria).*

Bioaccumulation

The product has not been tested.

Other adverse effects:

Do not allow to enter soil, waterways or waste water channels. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

13. Disposal considerations

Waste disposal of substance:

Incinerate in a licensed facility. Do not discharge substance/product into sewer system. Dispose of in a licensed facility.

Container disposal:

Steel drums must be emptied and can be sent to a licensed drum reconditioner for reuse, a scrap metal dealer or an approved landfill. Refer to 40 CFR § 261.7 (residues of hazardous waste in empty containers). Decontaminate containers prior to disposal. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport USDOT

Not classified as a dangerous good under transport regulations

Sea transport IMDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains DIETHYLMETHYLBENZENEDIAMINE)

Air transport IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains DIETHYLMETHYLBENZENEDIAMINE)

15. Regulatory Information

Federal Regulations

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Registration status:
Chemical TSCA, US released / listed

OSHA hazard category: IARC 1, 2A or 2B carcinogen; Chronic target organ effects reported; ACGIH TLV established

EPCRA 311/312 (Hazard categories): Acute; Chronic

EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
107-21-1	ethylene glycol
68479-98-1	diethylmethylbenzenediamine

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	107-21-1	ethylene glycol

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	111-46-6	Diethylene glycol
MA, NJ, PA	107-21-1	ethylene glycol

CA Prop. 65:
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. Other Information

Recommended use: polyurethane component
Suitable for use in industrial sector: Polymers industry;

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 1

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

SDS Prepared by:
BASF NA Product Regulations
msds@basf.com
SDS Prepared on: 2013/05/31

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