



U.S. Format

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 680DDN
Product Number (Optional): 680DDN
Use of Product: Polyimide Primer
Supplier: Rogers Corporation
1100 Governor Lea Road,
Bear, DE 19701
Phone: 001-302-834-2100
Fax: 001-302-834-4021
Email: msdsinfo@rogerscorporation.com
Emergency Telephone Number: 800-424-9300 (U.S. & Canada) Chemtrec
001-703-527-3887 (International – Call Collect)

2. HAZARDS IDENTIFICATION

Emergency Overview:

OSHA Hazard: Not Applicable
Target Organs: Not Applicable
GHS Classification: Flammable liquids (Category 3)
Acute toxicity, Inhalation (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Carcinogenicity (Category 2)
Specific target organ toxicity-single exposure (Category 3), Respiration system
Specific target organ toxicity-repeated exposure (Category 2)
Specific target organ toxicity-repeated exposure, Inhalation (Category 2), Central nervous system, Liver, Kidney
Aspiration Hazard (Category 1)
Acute aquatic toxicity (Category 2)
Chronic aquatic toxicity (Category 3)

GHS Label Elements, :

Pictogram:



Signal Word:

Danger

Hazard Statements:

H226: Flammable liquid and vapor
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H319: Causes serious eye irritation
H332: Harmful if inhaled
H335: May cause respiratory irritation
H351: Suspected of causing cancer
H373: May cause damage to organs through prolonged or repeated exposure
Including Precautionary Statements: H401: Toxic to aquatic life

H412: Harmful to aquatic life with long-lasting effects

P261: Avoid breathing dust.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P330: Rinse mouth.

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

P337 + P313: If eye irritation persists: Get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

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

P501: Dispose of contents/container to approved Hazardous waste Company.

HMIS Classification:

*H 2 F 3 R 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS #</u>	<u>Concentration (%)</u>
Xylene	1330-20-7	32-56
Ethylbenzene	100-41-4	8-14
Bis(2,4-dichlorobenzoyl)peroxide	133-14-2	0.1

The material contains no other hazardous ingredients as defined in OSHA's Hazard Communication Standard 29 CFR 1910.1200.

4. FIRST-AID MEASURES

General Advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact:	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact:	Rinse thoroughly with plenty of water for at least 20 minutes and consult a physician.
If Swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delayed:	The most important known symptoms and effects are described in the labelling (see Section 2) and/or in Section 11
Indication of any immediate medical attention and special treatment needed	No data available.

5. FIRE-FIGHTING MEASURES

Conditions of Flammability:	No data available.
Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective Equipment for Fire Fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous Combustion Products: Carbon Oxides

Further Information: Do not allow fire water to penetrate into surface or ground water. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapors mists or gas. Ensure adequate ventilation. For personal protection see Section 8.

Environmental Precautions: Prevent further leakage or spillage. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up: Remove all sources of ignition. Contain spillage, then collect with electrically protected devices, or by wet brushing. Take up mechanically. Collect in closed containers for disposal. For disposal see Section 13.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid formation of aerosols. Provide appropriate exhaust ventilation at places where vapors are formed. No Smoking, Take Measures to prevent the build-up of electro-static charge. For precautions see Section 2.

Conditions for Safe Storage: Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Controls Parameters:

<u>Components</u>	<u>CAS #</u>	<u>Value</u>	<u>Control Parameter</u>	<u>Basis</u>
Xylene	1330-20-7	TWA	100 PPM	ACGIH Threshold Limit Values (TLV)
		STEL	150 PPM	
		TWA	100 PPM 435 mg/M ³	USA OSHA
Ethylbenzene	100-41-4	TWA	20 PPM	ACGIH Threshold Limit Values (TLV)
		STEL	125 PPM	
		TWA	100 PPM or 435 mg/M ³	USA NIOSH Recommended Exposure limits
		STEL	125 PPM or 454 mg/M ³	
TWA	100 PPM or 435 mg/M ³	USA OSHA		

Exposure Controls: Handle in accordance with good industrial hygiene and safety practice.

Appropriate Engineering Controls: Wash hands before breaks and at the end of workday.

Personal Protective Equipment:
Respiratory Protection:

Where risk assessment show air-purifying respirators are appropriate use a full-face respirator with multi-purpose combinations(US) and type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the

Hand Protection:	respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye Protection:	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and Body Protection:	Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Wash and dry hands.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Silicone Rubber Dispersion
Color:	Clear

Safety Data:

pH:	No data available.
Melting/Freezing Point:	<32 °F (DIN EN ISO 306)
Boiling Point:	137 to 140°C (278.6- 284°F)
Flash Point:	77 °F
Ignition Temperature:	No data available.
Autoignition Temperature:	530oC (986oF)
Lower Explosion Limit:	1.1%
Upper Explosion Limit:	7%
Vapor Pressure:	24 hPa (18 mmHG) at 38°C (100.4 °F)
Specific Gravity:	0.95 at 20 °C (68 °F)
Water Solubility:	Not water soluble.
Partition Coefficient:	~2.98 Log K _{fs}
Relative Vapor Density:	3.67 (air =1)
Odor:	Characteristic of xylene
Odor Threshold:	1 ppm (Xylene)
Evaporation Rate:	0.6 (BuAc =1)

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Vapors may form explosive mixture with air.
Conditions to Avoid:	Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.
Materials to Avoid:	Oxidizing agents.
Hazardous Decomposition Products:	Other decomposition products - no data available. In the event of fire: see Section 5.
Thermal decomposition:	To avoid thermal decomposition, do not overheat.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	
Oral LD50:	No data available.
Dermal LD50:	No data available.
Other Info. on Acute Toxicity:	No data available.
Skin Corrosion/Irritation:	No data available.
Serious Eye Damage/Irritation:	No data available.

Respiratory or Skin Sensitization:	No data available.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	
IARC:	2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene).
IARC:	3- Group3: Not Classified as to its carcinogenicity to humans (Xylene)
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
Reproductive Toxicity:	No data available.
Teratogenicity:	
Specific Target Organ Toxicity – Single Exposure (GHS):	No data available.
Specific Target Organ Toxicity – Repeated Exposure (GHS):	No data available.
Aspiration Hazard:	No data available.
Additional Information:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Vomiting, nausea, diarrhea possible

12. ECOLOGICAL INFORMATION:

Toxicity:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other Adverse Effects:	No data available.

13. DISPOSAL CONSIDERATIONS

Product:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated Packaging:	Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (U.S.) Classification:	UN1993, Flammable liquids N.O.S. (Xylene), 3, PG III	RQ 100 lbs.
IMDG Classification:	UN1993, Flammable liquids N.O.S. (Xylene), 3, PG III	EMS-No: F-E, S-D
IATA Classification:	UN1993, Flammable liquids N.O.S. (Xylene), 3, PG III	

15. REGULATORY INFORMATION

SARA 302 Components:	No chemicals in this material are subject to the reporting requirements of SARA Title III.
SARA 311/312 Hazards:	Acute Health Hazard
CERCLA (Comprehensive Emergency Response, Compensation, and Liability Act):	Not Applicable
SARA Title III (Superfund Amendments and Reauthorization Act):	Not Applicable

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
1330-20-7	Xylene	32-56
100-41-4	Ethylbenzene	8-14
133-14-2	Bis(2,4-dichlorobenzoyl)peroxide	0.1

16. OTHER INFORMATION

NA = Not Applicable
NE = Not Established
NC = Not Classified

FILE: 99430 - 680DDN - SDS 12222016
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DATE: 12-22-2016

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