

**SC 2002 NS BLACK**

This product appears in the following stock number(s):

14700

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Tradename:** SC 2002 NS BLACK**General use:** This is a one component resin system. After curing, the product is not hazardous.**Chemical family:** Epoxy resin**MANUFACTURER**ITW Devcon  
30 Endicott St.  
Danvers, MA 01923**EMERGENCY INFORMATION****Emergency telephone number**  
**(CHEMTREC): (800) 424-9300**  
**Other Calls: (978) 777-1100****2. COMPOSITION/INFORMATION ON INGREDIENTS****HAZARDOUS CONSTITUENTS****Exposure limits**

Constituent	Abbr.	CAS No.	Weight percent	ACGIH TLV	OSHA PEL	Other Limits
Glycidyl neodeconate	NDG	26761455	1-10	n/e	n/e	n/e
Cycloaliphatic amine		*	1-10	n/e	n/e	n/e

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limit. "n/e" indicates that no exposure limit has been established. An asterisk (\*) indicates a substance whose identity is a trade secret of our supplier and unknown to us.

**3. HAZARDS IDENTIFICATION****Emergency Overview**

Appearance, form, odor: black viscous liquid with little odor.

**WARNING!** Eye and skin irritant. Potential skin sensitizer.**Potential health effects****Primary routes of exposure:**  Skin contact  Skin absorption  Eye contact  Inhalation  Ingestion**Symptoms of acute overexposure:****Skin:** Moderate irritant. Contact at elevated temperatures can cause thermal burns. May cause skin sensitization (rashes, hives).**Eyes:** Moderate irritant. Contact at elevated temperatures can cause thermal burns.**Inhalation:**

May cause irritation to nose, throat, and respiratory tract.

**Ingestion:**

May cause gastric distress.

**Effects of chronic overexposure:**

Prolonged or repeated skin contact may cause an allergic skin reaction or sensitization, with itching, swelling, or rashes on later exposure.

**Carcinogenicity -- OSHA regulated: No**

**ACGIH: No**

**National Toxicology Program: No**

**International Agency for Research on Cancer: No**

**Medical conditions which may be aggravated by exposure:**

Preexisting eye and skin disorders (e.g. eczema). Development of preexisting skin or lung allergy symptoms may increase.

**Other effects:**

See section 11.

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**4. FIRST AID MEASURES****First aid for eyes:**

Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Get immediate medical attention.

**First aid for skin:**

Immediately remove contaminated clothing and excess contaminant. Flush skin with water. Wash thoroughly with soap and warm water. Consult a physician if irritation develops.

**First aid for inhalation:**

Remove patient to fresh air. Administer oxygen if breathing is difficult. Get medical attention if symptoms persist.

**First aid for ingestion:**

Do NOT induce vomiting. Give two glasses of water to dilute if patient is conscious. Get medical attention.

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**5. FIRE FIGHTING MEASURES****Extinguishing media:**

Water

Carbon dioxide

Dry chemical

Foam

Alcohol foam

**Flash Point (°F):** >200

**Method:** PMCC

**Explosive limits in air (percent) -- Lower:** n/d

**Upper:** n/d

**Special firefighting procedures:**

Material will not burn unless preheated. Do not enter confined space without full bunker gear. Firefighters should wear self-contained breathing apparatus and protective clothing. Cool fire exposed containers with water.

**Unusual fire and explosion hazards:**

Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.

**Hazardous products of combustion:**

When heated to decomposition it emits fumes of Cl<sup>-</sup>, carbon monoxide, other fumes and vapors varying in composition and toxicity.

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**6. ACCIDENTAL RELEASE MEASURES****Spill control:**

Avoid personal contact. Eliminate ignition sources. Ventilate area.

**Containment:**

Dike, contain and absorb with clay, sand or other suitable material.

**Cleanup:**

For large spills, pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material and dispose of properly. Flush area with water to remove trace residue.

**Special procedures:**

Prevent spill from entering drainage/ sewer systems, waterways, and surface waters.

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**7. HANDLING AND STORAGE****Handling precautions:**

Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities.

Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles.

Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against nuisance dust during sanding/grinding of cured product.

**Storage:**

Store in a cool, dry area in closed containers away from high temperatures and flames.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering controls****Ventilation :**

Local exhaust ventilation is preferred although good general mechanical ventilation is usually adequate for most industrial applications. Local exhaust is recommended for confined areas.

**Other engineering controls :**

Have emergency shower and eye wash available.

**Personal protective equipment****Eye and face protection:**

Safety glasses with side shields.

**Skin protection:**

Chemical-resistant gloves and other gear as required to prevent skin contact.

**Respiratory protection:**

None needed in normal use with proper ventilation. In poorly ventilated areas use NIOSH approved organic vapor cartridge respirator for uncured resin, dust/particle respirator during grinding/sanding operations for cured resin, or fresh airline respirator as exposure levels dictate (see OSHA 1910.134).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Specific gravity:</b>	1.64	<b>Boiling point (°F):</b>	>200
<b>Melting point (°F):</b>	n/d	<b>Vapor density (air = 1):</b>	>1
<b>Vapor pressure (mmHg):</b>	n/d at 171 °F	<b>Evaporation rate (butyl acetate = 1):</b>	n/d
<b>VOC (grams/liter):</b>	0	<b>Solubility in water:</b>	Negligible
<b>Percent volatile by volume:</b>	0	<b>pH (5% solution or slurry in water):</b>	n/d
<b>Percent solids by weight:</b>	100		

## 10. STABILITY AND REACTIVITY

This material is chemically stable. Hazardous polymerization will not occur.

### Conditions to avoid :

Open flame and extreme heat

### Incompatible materials:

Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines).

### Hazardous products of decomposition:

Oxides of carbon and nitrogen; aldehydes, acids and other organic substances may be formed during combustion or elevated temperature (>500 deg F) degradation.

### Conditions under which hazardous polymerization may occur:

Heat is generated when resin is mixed with curing agents; Run-a-way cure reactions may char and decompose the resin, generating unidentified fumes and vapors which may be toxic.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral effects:** LD50 (rat): Not available.

**Acute dermal effects:** LD50 (rabbit): Not available.

**Acute inhalation effects:** LC50 (rat): Not available.

Exposure: 8 hours.

### Eye irritation:

No data available.

### Subchronic effects:

No data available.

### Carcinogenicity, teratogenicity, and mutagenicity:

1) MUTAGENICITY: Liquid resins based on diglycidyl ether of Bisphenol A (DGEBA), have proved to be inactive when tested by in vivo mutagenicity assays. These resins have shown activity in in vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat liver cells. The significance of these tests to

man is unknown. 2) CARCINOGENICITY: Recent 2-year bioassays in rats and mice exposed by the dermal route to DGEBA yielded no evidence of carcinogenicity to the skin or any other organs. This study clarifies prior equivocal results from a 2-year mouse skin painting study, which were suggestive, but not conclusive, for weak carcinogenic activity. 3) The International Agency for Research on Cancer (IARC) concluded that DGEBA is not classifiable as a carcinogen (IARC group 3), that is human and animal evidence of carcinogenicity is inadequate. NPGDGE produced skin tumors in mice when repeatedly applied to skin at doses of 1.87 and 3.75 mg/mouse/week for 2 years. Was positive in bacterial genetic toxicity assays. Mixed results in mammalian toxicity assays. Carbon black has been shown to have In Vivo mutagenic effects on a rat lung cells.

**Other chronic effects:**

Prolonged or repeated skin contact may cause sensitization, with itching, swelling, or rashes on later exposure. Studies have shown bisphenol A diglycidyl ether resin to cause allergic contact dermatitis.

**Toxicological information on hazardous chemical constituents of this product:**

Constituent	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 4hr, (rat)
Glycidyl neodeconate	9.6 g/kg (rat)	3.8 g/kg (rat)	N/A
Cycloaliphatic amine	> 2000 mg/kg	> 2000 mg/kg	n/d

'n/d' = 'not determined'

**12 ECOLOGICAL INFORMATION****Ecotoxicity:**

No data available.

**Mobility and persistence:**

No data available.

**Environmental fate:**

No data available.

**13. DISPOSAL CONSIDERATIONS**

Please see also Section 15, Regulatory Information.

**Waste management recommendations:**

If this resin becomes a waste, it would not be a hazardous waste by RCRA criteria (40CFR 261). Dispose of according to applicable federal, state, and local regulations.

**14. TRANSPORT INFORMATION**

**Proper shipping name:** Non-regulated  
**Technical name :** N/A  
**Hazard class :** N/A  
**UN number:** N/A  
**Packing group:** N/A  
**Emergency Response Guide no.:** N/A  
**IMDG page number:** N/A  
**Other:** N/A

**15. REGULATORY INFORMATION****U.S. Federal Regulations****TSCA**

All ingredients of this product are listed, or are exempt from listing, on the TSCA inventory.

**The following RCRA code(s) applies to this material if it becomes waste:**

None

**Regulatory status of hazardous chemical constituents of this product:**

Constituent	Extremely Hazardous*	Toxic Chemical**	CERCLA RQ (lbs)	TSCA 12B Export Notification
Glycidyl neodeconate	No	No	0.0	Required
Cycloaliphatic amine	No	No	0.0	Not required

\*Consult the appropriate regulations for emergency planning and release reporting requirements for substances on the SARA Section 301 Extremely Hazardous Substance list.

\*\*Substances for which the "Toxic Chemical" column is marked "Yes" are on the SARA Section 313 list of Toxic Chemicals, for which release reporting may be required. For specific requirements, consult the appropriate regulations.

**For purposes of SARA Section 312 hazardous materials inventory reporting, the following hazard classes apply to this material:** - Immediate health hazard -- Delayed health hazard -

**Canadian regulations**

**WHMIS hazard class(es) :** D2B; D2A

**16. OTHER INFORMATION**

<b>Hazardous Materials Identification System (HMIS) ratings:</b>	<b>Health</b> <b>2*</b>	<b>Flammability</b> <b>1</b>	<b>Reactivity</b> <b>1</b>
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