

# SAFETY DATA SHEET

## REDUX 312

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

**PRODUCT NAME:** REDUX 312

**CHEMICAL NAME 2:** Redux 312, 312L, 312UL, 312/5.

**PART No.:** 20029

**APPLICATIONS:** Epoxy resin formulation in film form.

**SUPPLIER:** Hexcel Composites  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME			CONTENT
<b>CAS No.:</b>	<b>EINECS Nr.:</b>	<b>CLASSIFICATION</b>	
DIURON			1-5 %
330-54-1	206-354-4	Xn ,N R-22, 40, 48/22, 50/53 Carc3	
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE			30-60 %
1675-54-3	216-823-5	Xi ,N R-36/38, 43, 51/53	
EPOXY RESIN (Number average MW <= 700 )			0-1 %
25068-38-6	500-033-5	Xi ,N R-36/38, 43, 51/53	

The Full Text for all R-Phrases are Displayed in Section 16

### 3. HAZARDS IDENTIFICATION:

Irritating to eyes and skin.  
Limited evidence of a carcinogenic effect.  
May cause sensitisation by skin contact.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Carcinogen Category 3.

### 4. FIRST AID MEASURES:

**SPECIFIC FIRST AID TREATMENT:** Skin contact: With uncured material, immediately wash the affected area with warm, so:

water then clean the skin with resin removing cream, followed by further washing with warm soapy water. Do not use solvents. If irritation persists, seek medical attention.

Ingestion: Immediately rinse the mouth repeatedly with water, if swallowing has occurred do not induce vomiting. If requested, give affected person sips of water. Seek medical attention immediately.

If vomiting does occur do not allow the affected person to inhale their vomit. Do not give anything by mouth to an unconscious person.

Inhalation: With any sign of respiratory distress, affected persons should be taken into fresh air, and made to rest while medical attention is sought.

Eye contact: Flush with water for at least 15 minutes and seek medical attention if irritation persists.

## 5. FIRE FIGHTING MEASURES:

### EXTINGUISHING MEDIA:

Use either a carbon dioxide, dry powder, foam or water spray mist extinguisher. Do not use water jets as these may spread the fire base. In a serious fire, wear self-contained breathing apparatus.

### HAZARDOUS COMBUSTION PRODUCTS

Combustion may release oxides of carbon, nitrogen and sulphur.

## 6. ACCIDENTAL RELEASE MEASURES:

### SPILL CLEANUP METHODS:

Clean affected area, and dispose of product and cleaning materials in accordance with local regulations. See paragraph 13.

## 7. HANDLING AND STORAGE:

### USAGE PRECAUTIONS:

Handling: Avoid contact with uncured product. Avoid inhalation of dust/fumes generated during processing operations. Provide positive dust extraction and collection from cutting zone. Protect against fire and explosion by avoiding dust formation and ignition source when machining product.

Storage: Store containers, securely closed according to container label instructions.

Store away from food and food stuffs.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

### INGREDIENT COMMENTS:

MEL = Maximum Exposure Limit. OES = Occupational Exposure Standard.

### PROTECTIVE EQUIPMENT:



### RESPIRATORS:

Local exhaust ventilation or an approved respirator should be used where fumes from material, or dust from machining cured material arise.

### PROTECTIVE GLOVES:

Avoid skin contact by use of impermeable gloves when handling the product. If necessary use disposable sleeves for protecting arms.

### EYE PROTECTION:

Goggles or face protection should be worn during machining operations.

### HYGIENIC WORK PRACTICES:

Wash at the end of each work shift and before eating, smoking and using the toilet.

Promptly remove any clothing that becomes contaminated.  
Use appropriate skin cream to prevent drying of skin.  
No eating or drinking while working with this material.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Flexible resin film.  
Product is protected each side by coloured polythene foil or foil on side and release papercovering on the other.

**ODOUR/TASTE:** Mild (or faint).

## 10. STABILITY AND REACTIVITY:

**STABILITY:** Normally stable.

**CONDITIONS TO AVOID:** Thermal decomposition and burning may release oxides of carbon, nitrogen and sulphur.  
Avoid contact with strong acids and alkalis and oxidising materials.  
Material may react exothermically when exposed to high temperatures; exotherm may be severe if material is in bulk (rolls).

## 11. TOXICOLOGICAL INFORMATION:

**SKIN:** Irritating to skin.  
May cause sensitisation by skin contact.

**EYES:** Irritating to eyes.

**OTHER HEALTH EFFECTS:** Carcinogen Category 3.

## 12. ECOLOGICAL INFORMATION:

**ECOLOGICAL INFORMATION:** Not known.

## 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHODS:** Incineration (high temperature plant) or dispose of in accordance with local regulations.  
Do not re-use or re-cycle paper coverings or any other packaging in contact with product.

## 14. TRANSPORT INFORMATION:

**ROAD TRANSPORT NOTES:** Not Classified

**RAIL TRANSPORT NOTES:** Not Classified.

**SEA TRANSPORT NOTES:** Not Classified.

**AIR TRANSPORT NOTES:** Not Classified.

## 15. REGULATORY INFORMATION:

**LABEL FOR SUPPLY:**



**CONTAINS**

DIURON  
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE

**RISK PHRASES:**

R-36/38 Irritating to eyes and skin.  
R-40 Limited evidence of a carcinogenic effect.  
R-43 May cause sensitisation by skin contact.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SAFETY PHRASES:**

P-5 Contains epoxy constituents. See information supplied by the manufacturer.  
S-28B After contact with skin, wash immediately with plenty of warm soapy water.  
S-36/37 Wear suitable protective clothing and gloves.  
S-60 This material and its container must be disposed of as hazardous waste.

**COMMENTS:**

All materials or components of this product are either listed or are not required to be listed in the EPA TSCA Inventory.

## 16. OTHER INFORMATION:

**ISSUED BY:**

European Product Safety Department

**DISCLAIMER:**

The product should be used in accordance with good industrial hygiene practice and compliance with any legal requirements. All information has been compiled with due diligence and is based on the present state of our knowledge. It is intended to describe the product from a point of view of safety and should not therefore be construed as guaranteeing any specific property. All products are supplied subject to our Standard Conditions of Sale which contains limitations on liability.

**PRINTING DATE:**

2002-12-16

**R-PHRASES (Full Text):**

R-36/38 Irritating to eyes and skin. R-43 May cause sensitisation by skin contact. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-22 Harmful if swallowed. R-40 Limited evidence of a carcinogenic effect. R-48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.