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NF 321-15

1. Chemical Product and Company Identification

Product Name : Epoxy Foam Resin (Sheet) NF321-15	
Recommended and Restricted Uses : -----	
Manufacturer, importer or supplier name : Everwide Chemical Company	
Manufacturer, importer or supplier address : No. 36, Dougong 6th Rd., Douliu City, Yunlin County 64069, Taiwan	
Consultant : RD Assistant Engineer, Jung-Hsin, Lin	
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2. Hazards Identification

Chemical Hazard Classification : Serious eye damage/eye irritation category 2B, Skin sensitizer category 1.
Symbol Contents : 
Symbol : Exclamation mark.
Signal word : Warning.
Hazard Statement : Causes eye irritation, May cause allergic skin reaction.
Precautionary Statement : Store in well-ventilated place. Keep away from ignition sources—No smoking. Do not wear contact lenses. Chemical safety goggles are recommended. Avoid eyes and skin contact. Wear suitable protective equipment. Call a doctor or physician if you feel unwell.
Other Effects : -----

3. Ingredients

Hazardous ingredient name	Concentration WT%	CAS No.
Epoxy resin	63	25068-38-6
Expanded foamed microspheres	30	Not assigned
Dicyanodiamide	6	461-58-5
Carbon black	1	1333-86-4

4. First Aid Measures

The First-aid Measures for Different Exposure Routes :
Inhalation : Remove to fresh air. If symptoms persist, obtain medical attention.
Skin Contact : Immediately wash with soap and water. Wash contaminated clothing before reuse. Get medical attention if symptoms occur.
Eye Contact : Flush with lukewarm water at least 15 minutes. Seek medical advice.
Ingestion : Clean with water and drink plenty of water. Induce vomiting. Keep individual calm. Obtain medical attention.
The Most Important Symptoms and Hazardous Effects : Nausea and irritating.
The Protection of First-aides : Wear impervious gloves. Avoid contacting the pollutant.
Notes to Physicians : Do not induce vomiting. Never give anything by mouth to an unconscious person.

5. Fire-Fighting Measures

Suitable Fire Extinguishing Media : Carbon dioxide, foam or dry chemical.
Specific Hazards May Be Encountered During Fire-fighting : May cause carbon monoxide, acetone, aldehyde, ammonia and some organism materials.
Specific Fire-fighting Methods : Move to the safe area.
Special Equipment for The Protection of Firefighters : Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals

6. Accidental Release Measures

Personal Precautions : Wear suitable protective equipment. Clean the floor to prevent from slipping and falling.
Environmental Precautions : Extinguish the flame. Do not flush into surface water or sanitary sewer system. Advise water authority if spillage has entered water course or drainage system.
Methods for Cleaning Up : Spontaneous hazardous polymerization may occur. Eliminate sources of ignition. Use eye and skin protection. Maintain adequate ventilation. Soak up with inert absorbent. Store in a half filled, closed container until disposal.

7. Handling and Storage

Handling : Wear suitable protective equipment. Avoid leak. Keep away from light and heat. Avoid eye and skin contact. Keep the place ventilated.
Storage : Keep away from flame and sunlight. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly sealed.

8. Exposure Controls/Personal Protection

Engineering Controls : If handling results in aerosol or vapor generation, local exhaust ventilation is recommended. Do not smoke and eat in the work area. Keep the workplace clean.										
Control Parameters :										
<table border="1"> <thead> <tr> <th>Ingredients</th> <th>Time weighted average exposure limits (TWA/8hr)</th> <th>Short-term exposure limits (STEL)</th> <th>Maximum exposure limits (CEILING)</th> <th>Biological Standards (BEIs)</th> </tr> </thead> <tbody> <tr> <td>Carbon black</td> <td>3.5mg/m³</td> <td>7mg/m³</td> <td>-----</td> <td>-----</td> </tr> </tbody> </table>	Ingredients	Time weighted average exposure limits (TWA/8hr)	Short-term exposure limits (STEL)	Maximum exposure limits (CEILING)	Biological Standards (BEIs)	Carbon black	3.5mg/m ³	7mg/m ³	-----	-----
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Personal Protection :										
Respiratory : Respiratory equipment and gas mask.										
Hand protection : Use protective gloves.										
Eyes : Do not wear contact lenses. Chemical safety goggles are recommended.										
Skin : Avoid skin contact. Use impermeable gloves and protective clothing as necessary to prevent skin contact.										
Wash contaminated clothing before reuse.										
Other Hygienic Practices : Use good personal hygiene practices. Wash hands and face before eating and drinking. Exercise more to keep healthy. Ingest food which contains vitamins and minerals. Do physical examination regularly.										

9. Physical and Chemical Properties

Physical State(Appearance, Color) : Black solid, sheet	Odor : Mild
Odor Threshold : -----	Melting Point : -----°C
pH Value : -----	Boiling Point : > 260°C
Flammable (Solid, Gas) : -----	Flash Point : > 93°C
Decomposition Temp. : -----°C	Test Method : -----
Autoignition Temperature : -----°C	Explosion Limits :
	Upper(UEL) : ----- ; Lower(LEL) : -----
Vapor Pressure : < -----mmHg (@20°C)	Vapor Density : ----- (Air=1)
Density : -----g/cm ³ (Water=1)	Solubility in Water : -----
Octanol-water Partition Coefficient, Kow : -----	Evaporation Rate : -----

10. Stability and Reactivity

Stability	Stable.
Hazardous Polymerization	May occur.
Incompatibility	Avoid flammable, ignitable, heat source, spark, flame, strong oxidant, free radical initiator, peroxide and basic materials.
Hazardous Decomposition Products	Carbon monoxide, acetone, aldehyde, ammonia.

11. Toxicological Information

Acute Toxicity : Inhalation : May irritate to nose and throat.			
Skin : Irritating to skin if contact.			
Eye : The vapor may irritate to eye.			
Ingestion : May cause headache, nausea, dizziness and tiredness.			
Ingredients	Concentration %	LD50 (Lethal Dose 50)	LC50 (Lethal Concentration 50)
Epoxy resin	63	-----	-----
Expanded foamed microspheres	30	-----	-----
Dicyanodiamide	6	> 10000 mg/kg(Rat, Oral) > 2000 mg/kg(Rabbit, Skin)	-----
Carbon black	1	-----	27000 mg/m3/1H
Local Effects : May cause irritating if skin contact for a long time.			
Sensitization : -----			
Chronic Toxicity or Long Term Toxicity : -----			
Specific Effects : -----			

12. Ecological Information

Ecotoxicity : -----
Persistence / Degradability : -----
Bioaccumulation : -----
Mobility : -----
Other Information : Avoid the products enter into drainage or soli surface. After the product curing, it can be disposed by following local regulations.

13. Disposal Considerations

Recommended methods of Disposal : Recover or recycle if possible. Otherwise, incineration following local regulations.

14. Transport Information

United Nation Number (UN No.) : -----
Proper Shipping Name : -----
Class : -----
Packing Group : -----
Marine pollutant (Yes/No) : No
Special delivery methods and precautions : -----
IATA-DGR : Not Restricted AS DGR 58 edition

15. Regulatory Information

Traffic Regulation
Occupational Safety and Health Act
Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials
Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace
Management Regulations for the Import, Export, Transit and Transshipment of Waste
Public Hazardous Materials and Flammable Pressurized Gases Establishment Standards and Safety Control Procedures

16. Other Information

Title	Name : Everwide Chemical Company
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	Telephone : (886) 5-5574717
Prepare By	RD Assistant Engineer, Jung-Hsin, Lin
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The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.