Safety
Data
Sheet

U·E·I Systems
A UEI® GROUP COMPANY

9090 Nieman • Overland Park, KS 66214 • (913) 541-0503 • Toll Free: 800-221-9059 • sales@ueisystems.com • ueisystems.com

Section 1 Chemical Product and Company Identification

Product Identifier GPC® Epoxy Resin, Blended

Product Number IR-CNT4044, IR-CNT4024

General Use Used in making counters for stamping dies

Company Address UEI Systems®, a UEI Group Company
9090 Nieman Road
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Phone +1 800 221 9059 or +1 913 541 0503

Emergency Contact Number CHEMTEL – Available 24 hours/day, 7 days/week
Domestic North America: +1 800 255 3924
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Section 2 Hazards Identification

GHS Classification

Hazard Class	Hazard Category	Route of Exposure
Skin Corrosion/Irritation	2	–
Serious Eye Damage/Irritation	2A	–
Skin Sensitization	1	–
Specific to Target Organ Toxicity (Single Exposure)	3	Respiratory

GHS Labeling

Contains Pheno-Formaldehyde Polymer Glycidyl Ether (28064-14-4)

Warning

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation
Harmful if inhaled

Precautionary Statements
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area.
Avoid breathing vapor
Wash hands thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a **Poison Center** or doctor/physician if you feel unwell.
If on skin: Wash with plenty of soap and water.
Take off contaminated clothing.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs, get medical attention.

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Section 2 Hazards Identification, continued

If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical attention.
If exposed or concerned: Call a **Poison Center** or doctor/physician.

Storage Store locked up

Disposal Dispose of contents/container according to local, state and federal laws.

Section 3 Hazardous Ingredients / Identity Information

Hazardous Components	CAS No.	%
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	100

Section 4 First Aid Measures

In all cases, call a physician immediately.

Eye Contact Immediately flush eyes with plenty of water. Remove any contact lenses. Continue to rinse for at least 10 minutes.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact Wash with plenty of soap and water. Remove contaminated clothing. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse.

Ingestion Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Notes to Physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments No specific treatment

Protection of first aid personnel No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Section 5 Firefighting Measures

Extinguishing Media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable Extinguishing Media None known

Specific Hazards Arising from Chemical In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous Thermal Decomposition Products Fumes and vapors from the thermal and chemical decompositions vary widely in composition and toxicity. Carbon monoxide, Aldehydes or other organic compounds.

Firefighting Equipment/Instructions Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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Section 5 Firefighting Measures, continued

Special Protective Equipment for Firefighters

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental Release Measures

Personal Precautions for Non-Emergency Personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Personal Precautions for Emergency Responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for Cleaning Up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

Handling Precautions

Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

General Hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Storage Requirements

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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Section 8 Component Exposure Limits

Control Parameters

Occupational Exposure Limits None

Recommended Monitoring Procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate Engineering Controls Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental Exposure Controls Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene Measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand Protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section 9 Physical and Chemical Properties

Appearance/Odor	Black/Slight odor	**Odor Threshold**	Not available
pH	7	**Melting Point/Freezing Point**	No data available
Boiling Point	392° F (200° C)	**Flash Point**	302° F (150° C)
Burning Time	No data available	**Burning Rate**	No data available
Evaporation Rate	No data available	**Flammability Class**	No data available
Lower Explosive Limit	No data available	**Upper Explosive Limit**	No data available
Vapor Pressure	82 Pa @ 68° F (20° C)	**Vapor Density**	No data available
Relative Density	No data available	**Density**	1,170 kg/m^3 (ASTM D 4052)
Solubility	No data available	**Solubility (H_2O)**	Negligible
Partition Coefficient	3 n-octanol/water	**Auto Ignition**	572° F (300° C)
Decomposition Temperature	No data available	**SADT**	No data available
Dynamic Viscosity	2.5–4.5 Pa s @ 77° F (25° C)		

Section 10 Chemical Stability and Reactivity

Stability	Stable under normal conditions
Chemical Stability	The product is stable.
Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	No data available.
Incompatibility	Reactive or incompatible with the following materials: Strong oxidizing agents, strong acids, aliphatic amines
Hazardous Decomposition/ By-Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other Hazards	Reacts with considerable heat release with some curing agents. Runaway cure reactions may char and decompose the resin system, generating unidentified fumes and vapors which may be toxic. Heating this substance above 300° F in the presence of air may cause slow oxidative decomposition; above 500° F polymerization may occur. Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants.

Section 11 Toxicological Information

Acute Toxicity	No data available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Irritation	No data available
Respiratory/Skin Sensitization	No data available
Mutagenicity	No data available
Carcinogenicity	No data available
Reproductive Toxicity	No data available
Teratogenicity	No data available

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Section 11 Toxicological Information, continued

Specific Target Organ Toxicity Single Exposure Causes temporary irritation of the respiratory tract

Specific Target Organ Toxicity Repeated Exposure No data available

Aspiration Hazard No data available

Section 12 Ecological Information

Toxicity

Persistence/Degradability No data available

Bioaccumulative Potential

Ingredient Name	LogPow	BCF	Potential
Phenol-Formaldehyde Polymer Glycidyl Ether	3	–	Low

Mobility in Soil No data available

Other Adverse Effects The substance will not evaporate into the atmosphere from the water surface

Section 13 Disposal Considerations

Disposal Instructions Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

Section 14 Transportation Information

DOT (US)	
UN number	Non-regulated
Class	–
Packing group	–
Proper shipping name	–
Reportable Quantity (RQ)	–
Marine pollutant	–
Poison Inhalation Hazard	–

IMDG	
UN number	Non-regulated
Class	–
Packing group	–
EMS-No	F-A, S-F
Proper shipping name	–
Marine pollutant	–

IATA	
UN number	Non-regulated
Class	–
Packing group	–
Proper shipping name	–

Special Precautions for User Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spill.

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Section 15 Regulatory Information

United States - TSCA 12(b) - Chemical Export Notification: None required

United States - TSCA 5(a)2 - Final Significant New Use Rules: Not listed

TSCA 5(a)2 - Proposed Significant New Use Rules: Not listed

TSCA 5(e) - Substances Consent Order: Not listed

California Prop 65: **Warning**: This product contains less than 0.1% of a chemical known to the State of California to cause cancer., **Warning**: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient Name	Cancer	Reproductive	No Significant Risk Level	Maximum Acceptable Dosage Level
Oxirane, 2-(phenoxymethyl)-	Yes	No	5 µg/day	No
Oxirane, 2-(chloromethyl)-	Yes	Yes	9 µg/day	No

United States Inventory TSCA 8(b): All components are listed or exempted

Section 16 Other Information

UEI Systems®. provides the information contained herein in good faith. It is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI Systems shall not be held liable for any damage resulting from handling or from contact with this product. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources.

Abbreviations

PEL Permissible Exposure Limit
TLV Threshold Limit Value

End Notes

1. SARA - Signed into law in 1986, the Superfund Amendments and Reauthorization Act (SARA) is an extension of CERCLA, and is intended to encourage and support local and state emergency planning efforts. SARA provides citizens and local governments with information about potential chemical hazards, and calls for facilities that store hazardous materials to provide officials and citizens with data on the type and amount on hand at specific locations. This field states whether a material is listed or not listed in section 372.65 of SARA. EHS - This states if a material is listed or not listed in Appendix B to part 355, the SARA Extremely Hazardous Substances (EHS) section. RQ is the reportable quantity. TPQ is the Threshold Planning Quantity.

2. RCRA - The Resource Conservation and Recovery Act enacted in 1976 and subsequently amended, controls solid-waste disposal and encourages recycling. This states whether a material is listed or not listed under this regulation. If listed the Hazardous Waste Number and waste characterization assigned by RCRA is also provided.

3. CERCLA - Enacted in 1980 and amended thereafter, the Comprehensive Environmental Response, Compensation, and Liability Act provides for identification and cleanup of hazardous materials released on land, into the air, waterways, and groundwater. It covers areas affected by newly released materials and older leaking or abandoned dump sites. This states whether a material is listed or not listed in CERCLA Table 302.4. If listed the section(s) that it is listed under and the Reportable Quantity (RQ) are also provided.

4. TSCA - The Toxic Substances Control Act controls the exposure to and use of raw industrial chemicals not subject to other laws. This states whether the chemical is listed or not listed under this regulation.

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