MSDS

MATERIAL SAFETY DATA SHEET

Client	:	**Breakthrough Coatings Inc.** 169 Clay Pond Rd, Bourne MA 02532
Prepared by	:	**Shenzhen CCT Testing Technology Co., Ltd.** 8th Floor, Area I, Building 1, Hanhaida Science and Technology Innovation Park, Guangming New District, Shenzhen, Guangdong, China
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**********FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)**********

Shenzhen CCT Testing Technology Co., Ltd

Drafted By: Mark

Review By: Irence

Approved By: Tony mo

SHENZHEN CCT TESTING TECHNOLOGY CO.,LTD. CCT Testing Service * * *

SECTION 1.CHEMICAL PRODUCT INFORMATION

Product details:

Product name	:	Colored Epoxies
Model	:	KJ-A001, KJ-A002, KJ-A003, KJ-A004, KJ-A005, KJ-A006, KJ-A007 KJ-A008, KJ-A009 KJ-A010
Mark	:	/

Supplier/Manufacturer

Applicant	:	Breakthrough Coatings Inc.
Address	:	169 Clay Pond Rd, Bourne MA 02532

Summary:

As specified by the client, This safety data sheet was prepared in accordance with Un GHS Rev.7, The EU CLP REGULATION(EC) No 1272/2013, and US OSH Hazard Communication Standards(29 CFR 1910.1200). Please refer to attached report for details.

SECTION 2.HAZARDS IDENTIFICATION

Classification	If contact the liquid, reference as follows This item belongs to dangerous goods, do not drink the wrong food, no contact with eyes and other sensitive parts.
Classification of the substance or mixture	Classification according to GHS Skin, irritate(Cagegory 1B) Eye Irritate (Hazard category 1)
GHS Label elements, including precautionary statements	
Signal word	Warning
Hazard statement(s)	H225:Flammable liquid; H317: May cause an allergic skin reaction H320: Causes eye irritation; H302:Harmful if swallowed
precautionary statements	**Prevention:**P264 Wash thoroughly after handling; P270 Do not eat, drink or smoke when using this product; P280 Wear protective gloves/protective clothing/eye protection/face protection **Response :**P312:Call a Poison center or doctor/physician if you feel unwell; P302+P350-IF ON SKIN: Gently wash with plenty of water P301+P330+P331-IF SWALLOWED: rinse mouth. Do NOT induce vomiting; P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Disposal :** P501: Dispose of contents/container in accordance with local/national regulations **Hazards not otherwise classified (HNOC):** Not Applicable **Other information:** No information available

SECTION 3. COMPOSITION /HAZARDOUS INGREDIENTS

Chemical Name	CAS No.	Content (wt%)
Deionized Water	7732-18-5	25%
ALCOHOL	64-17-5	75%

SECTION 4. FIRST AID MEASURES

Eye Contact:	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin Contact:	Remove contaminated clothing and shoes， Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.
Most Important Symptoms/Effects	Both acute and delayed Swallowing Do not induce vomiting. Get medical attention.

SECTION 5. FIGHTING MEASURES

Suitable extinguishing Media	CO2, dry chemical powder, water spray
Unsuitable extinguishing Media	Not applicable
Specific Hazards Arising from the Chemical	Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released :Carbon monoxide(CO), Carbon dioxide , Other irritating and toxic gases
Hazardous Combustion Products	Carbon oxides. peroxide Other irritating and toxic gases
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.
Special hazards arising from the substance or mixture	It may release hazardus decomposition products when exposed to a fire situation. It contain flammable elements that may vent, ignite and produce sparks when subjected to high temperature, may burn rapidly with flare-burning effect; may ignite other material.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Personal Precautions: Avoid contact with eyes. Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove al l sources of ignition. Evacuate personnel to safe areas.
Environmental precautions	Environmental Precautions Refer to protective measures listed in Sections 7 and 8. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
Methods and material for containment and cleaning up	Methods for Containment Prevent further leakage or spillage if safe to do so. Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly

SECTION 7. HANDING AND STORAGE

HANDING	Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash thoroughly after handling. Use this material with adequate ventilation. The product is dangerous good.
STORAGE	Keep out of reach of children. Do not expose to heat or fire. Avoid storage in direct sunlight. Do not store together with oxidizing and acidic materials. Keep ignition sources away- Do not smoke. Store in cool, dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	Showers, Eyewash stations , Ventilation systems Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.
Individual protection measures, such as personal protective equipment	**Eye/Face Protection:** Tightly sealed goggles. **Body protection:** Protective work clothing. **Skin protection:** Protective gloves **Material of gloves :**The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Penetration time of glove material:** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. **Respiratory Protection** :No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. **Hygiene Measures :**Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIED

Appearance:	Liquid
Color:	Transparent
Odor:	It has a slight smell
Density:	0.790-0.793g/cm^3
Boiling Point:	78.3°C
Melting Point:	-114.5°C
Flashpoint:	21.5°C
Vapour density:	Not available.
Solubility in water:	Complete
Partition coefficient (n-octanol / water)	Not available.
Viscosity:	Not available.
PH Value:	Not available.
Upper flammable (explosive) limits in air – Upper (vol %) – UEL:	27.7 %(V)
Lower flammable (explosive) limits in air – Lower (vol %) – LEL:	3.1%(V)
Ignition temperature:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	Stable under recommended storage and handling conditions (see section 7, Handling and storage).
Chemical stability::	Stable under normal conditions of use, storage and transport. Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
Possibility of Hazardous Reactions:	None under normal processing.
Hazardous Polymerization:	Hazardous polymerization does not occur.
Conditions to avoid::	Strong heating, fire, Incompatible materials.
Incompatible materials:	Strong oxidizing agents， Strong acids，Base metals.
Hazardous Decomposition Products:	Carbon oxides, Other irritating and toxic gases.

SECTION 11.TOXICOLOGICAL INFORMATION

Acute toxiciy:	No data available.
Toxicity to Animals:	LD50: Not available. LC50: Not available.
Skin corrosion/irritation:	No strong irritant effect
Serious eye damage/irritation:	Cause serious eye irritation.
Respiratory or skin sensitization:	No sensitizing effects known.
Specific target organ system toxicity:	No information available.
CMR effects(carcinogenity, mutagenicity and toxicity for reproduction)	No information available.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity	Not available.
Persistence and degradability:	Not available.
Bioaccumulative potential::	Not available.
Mobility in soil:	Not available.
Other adverse effects:	Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	Must not be disposed together with household garbage. Do not allow product to reach sewage system
Uncleaned packaging	Recommendation: Disposal must be made according to official regulations

SECTION 14.TRANSPORT INFORMATION

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.
According to the Packing Instruction of IATA DGR 61th Edition for transportation.
Meets requirements of International Maritime Dangerous Goods IMDGCODE 39-18 Special Provision to be transported dangerous goods;
Meets the requirements of 49CFR173.185 to be transported as non-dangerous goods for road, rail, air, and vessel.
Meets the requirements of TDG to be transported as non-dangerous goods.
The package must be handled with care and that a flammability hazard exists if the package is damaged;
Packaging level：PGII
UN Classification: 3 ;
UN No: 1170

SECTION 15. REGULATORY INFORMATION

Law Information
《Dangerous Goods Regulation》
《Recommendations on the Transport of Dangerous Goods Model Regulations》
《International Maritime Dangerous Goods 》
《Technical Instructions for the Safe Transport of Dangerous Goods》
《Classification and code of dangerous goods》
《Occupational Safety and Health Act》(OSHA)
《Toxic Substances Control Act》(TSCA)
《Consumer Product Safety Act》(CPSA)
《Federal Environmental Pollution Control Act》(FEPCA)
《The Oil Pollution Act》(OPA)
《Superfund Amendments and Reauthorization Act Title III (302/311/312/313) 》(SARA
《Resource Conservation and Recovery Act》(RCRA)
《Safety Drinking Water Act》(CWA)
《California Proposition 65 》
《Code of Federal Regulations 》(CFR)
In accordance with all Federal, State and Local laws.

SECTION 16. OTHER INFORMATION

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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