

## SECTION 1: Identification

### Product identifiers:

**Product trade name:** HyPox\* RK84L  
**Company product number:** RK84L  
**Other means of identification:**

### Recommended use of the chemical and restrictions on use:

**Uses:** Epoxy resin - rubber adduct  
**Restrictions on use:** None identified

### Details of the supplier:

**Manufacturer/Supplier:** CVC Thermoset Specialties  
844 N. Lenola Road  
Moorestown, New Jersey 08057  
United States  
Telephone: +1-856-533-3000  
FAX: +1-856-533-3003  
Email: CTS.info@emeraldmaterials.com

**For further information about this SDS:**

### Emergency telephone number:

ChemTel (24 hours): 1-800-255-3924 (USA); +1-813-248-0585 (outside USA);  
1-300-954-583 (Australia); 000-800-100-4086 (India).

## SECTION 2: Hazard(s) identification

### Classification of the substance or mixture:

Skin Sensitizer, category 1, H317  
Hazardous to the aquatic environment, Acute, category 2, H401  
Hazardous to the aquatic environment, Chronic, category 2, H411

### Label elements:

#### Hazard pictogram(s):



#### Signal word:

Warning

#### Hazard statements:

H317 May cause an allergic skin reaction.  
H401 Toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

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P501 Dispose of contents/container in accordance with local, regional and international regulations.

**Supplemental information:** No Additional Information

Classification and hazards statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Regulations in individual countries/regions may determine which classifications and hazard statements are applicable based on adopted hazard classes and categories. Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Annex III. Regulations in individual countries/regions may determine which statements are required on the product label. See product label for specifics.

**Other hazards:** May form explosible dust-air mixture if dispersed.

See Section 11 for toxicological information.

### SECTION 3: Composition/information on ingredients

**Mixture:**

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Weight%</u>
0068610-41-3	Bisphenol A epoxy - CTBN rubber adduct	45-<55
0025036-25-3	Bisphenol A epoxy resin	35-<45
0014807-96-6	Talc	1-<5

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

### SECTION 4: First-aid measures

**Description of first aid measures:**

**General:** If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

**Eye contact:** Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. If eye irritation persists: Get medical advice/attention.

**Skin contact:** Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**Inhalation:** If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

**Protection of first aid responders:** Wear proper personal protective clothing and equipment.

**Most important symptoms and effects, both acute and delayed:** Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact. See section 11 for additional information.

**Indication of any immediate medical attention and special treatment needed, if necessary:** Treat symptomatically.

### SECTION 5: Fire-fighting measures

**Extinguishing media:**

**Suitable:** Carbon dioxide, dry chemical, foam, water fog.

**Unsuitable:** Avoid hose streams or any method which will create dust clouds.

**Special hazards arising From the chemical:**

**Unusual fire/explosion hazards:** Concentrated dust/air combinations may produce explosive conditions. This product has not been evaluated for dust explosion potential. As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. As a precaution, implement standard safety measures for handling finely divided organic powders. See Section 7 for suggested measures.

**Hazardous combustion products:** Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See section 10 (Hazardous decomposition products) for additional information.

**Special protective equipment and precautions for fire-fighters:** Avoid hose streams or any method which will create dust clouds. Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

See section 9 for additional information.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** See Section 8 for recommendations on the use of personal protective equipment. If spilled in an enclosed area, ventilate. Avoid raising powdered material due to explosion hazard. Use spark-proof and explosion-proof equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator. Personal Protective Equipment must be worn.

**Environmental precautions:** Do not flush product into public sewer, water systems or surface waters.

**Methods and materials for containment and cleaning up:** Contain spill. Wear proper personal protective clothing and equipment. Using care to avoid dust generation, vacuum or sweep into a closed container for reuse or disposal. Use approved industrial vacuum cleaner for removal. Avoid causing dust. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

## SECTION 7: Handling and storage

**Precautions for safe handling:** As with any chemical product, use good laboratory/workplace procedures. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid eye and skin contact. Avoid drinking, tasting, swallowing or ingesting this product. Avoid routine inhalation of dust of any kind. Exercise care when emptying containers, sweeping, mixing or doing other tasks which can create dust. Wash contaminated clothing before reuse. Discard shoes contaminated with this product. Provide eyewash fountains and safety showers in the work area. As a precaution to control dust explosion potential, implement the following safety measures: Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). In general, dust of organic materials is a static charge generator which may be ignited by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. Use spark-proof tools and equipment. Bond, ground and properly vent conveyors, dust control devices and other transfer equipment. Prohibit flow of polymer, powder or dust through non-conductive ducts, vacuum hoses or pipes, etc.; only use grounded, electrically conductive transfer lines when pneumatically conveying product. Good housekeeping and controlling of dusts are necessary for safe handling of product. Prevent accumulation of dust (e.g., well-ventilated conditions, promptly vacuuming spills, cleaning overhead horizontal surfaces, etc.).

**Conditions for safe storage, including any incompatibilities:** Store cool and dry, under well-ventilated conditions. Keep away from heat, sparks and open flames. Store this material away from incompatible substances (see section 10). Store product where temperature is below 75°F (24°C). Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use.

## SECTION 8: Exposure controls / personal protection

### Control parameters:

#### Occupational exposure limits (OEL):

<u>Chemical Name</u>	<u>ACGIH - TWA/Ceiling</u>		<u>ACGIH - STEL</u>	
Bisphenol A epoxy - CTBN rubber adduct	N/E		N/E	
Bisphenol A epoxy resin	N/E		N/E	
Talc	2 mg/m <sup>3</sup> TWA (particulate matter, respirable particulate matter)		N/E	
<u>Chemical Name</u>	<u>Australia</u>	<u>New Zealand</u>	<u>Korea</u>	<u>Taiwan</u>
Bisphenol A epoxy - CTBN rubber adduct	N/E	N/E	N/E	N/E
Bisphenol A epoxy resin	N/E	N/E	N/E	N/E
Talc	2.5 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA (respirable dust)	6 mg/m <sup>3</sup> TWA (respirable fraction), 3 mg/m <sup>3</sup> TWA (respirable fraction)	2 mg/m <sup>3</sup> TWA (respirable dust), 4 mg/m <sup>3</sup> STEL (respirable dust)
<u>Chemical Name</u>	<u>Japan ISHL</u>	<u>Japan JSOH</u>	<u>Indonesia</u>	<u>Malaysia</u>

**Chemical Name**

Bisphenol A epoxy - CTBN rubber adduct  
 Bisphenol A epoxy resin  
 Talc

**Japan ISHL**

N/E  
 N/E  
 N/E

**Japan JSOH**

N/E  
 N/E  
 0.5 mg/m3 OEL  
 (respirable dust), 2 mg/  
 m3 OEL (total dust)

**Indonesia**

N/E  
 N/E  
 2 mg/m3 TWA  
 (respirable particulate)

**Malaysia**

N/E  
 N/E  
 2 mg/m3 TWA  
 (respirable fraction of  
 particulate matter), 5 mg/  
 m3 TWA (respirable  
 dust), 10 mg/m3 TWA  
 (total dust)

**Chemical Name**

Bisphenol A epoxy - CTBN rubber adduct  
 Bisphenol A epoxy resin  
 Talc

**Philippines**

N/E  
 N/E  
 20 mppcf TWA

**Singapore**

N/E  
 N/E  
 2 mg/m3 PEL

N/E=Not established (no exposure limits established for the listed substances for listed country/region/organization).

PNOS: ACGIH has recommended the following exposure limits for Particulates (insoluble or poorly soluble) not otherwise specified (PNOS): 10 mg/m3 TWA (inhalable particles), 3 mg/m3 TWA (respirable particles).

**Exposure controls:**

**Appropriate engineering controls:** Always provide effective general and, when necessary, local exhaust ventilation to draw dust away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Eliminate ignition sources (e.g., sparks, static buildup, excessive heat, etc.). Prohibit flow of powder or dust through non-conductive ducts, vacuum hoses, or pipes, etc. Bond, ground, and properly vent conveyors, dust control devices and other transfer equipment.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Wear eye protection.

**Skin and body protection:** Wear chemical resistant (impervious) gloves. Wear chemical resistant protective clothing. Use good laboratory/workplace procedures including personal protective clothing: labcoat, safety glasses and protective gloves.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. If inhalation of dust cannot be avoided, wear an approved particulate respirator.

**Further information:** Eyewash fountains and safety showers are recommended in the work area.

**SECTION 9: Physical and chemical properties**

<b>Form:</b>	Solid (pellet)	<b>pH:</b>	Not Available
<b>Appearance:</b>	Clear amber	<b>Relative density:</b>	Not Available
<b>Odor:</b>	Slight aromatic	<b>Partition coefficient (n-octanol/water):</b>	Not Available
<b>Odor threshold:</b>	Not Available	<b>% Volatile by weight:</b>	Not Available
<b>Solubility in water:</b>	Negligible	<b>VOC:</b>	Not Available
<b>Evaporation rate:</b>	Not Available	<b>Boiling point °C:</b>	Not Available
<b>Vapor pressure:</b>	Very low	<b>Boiling point °F:</b>	Not Available
<b>Vapor density:</b>	Not Available	<b>Flash point:</b>	>200 °C (>392 °F) Cleveland Open Cup
<b>Viscosity:</b>	300 - 500 mPa-S @ 100°C (melt)	<b>Auto-ignition temperature:</b>	Not Available
<b>Melting point/Freezing point:</b>	Not Available	<b>Flammability (solid, gas):</b>	May form combustible dust concentrations in air.
<b>Oxidizing properties:</b>	Not oxidizing	<b>Flammability or explosive limits:</b>	LFL/LEL: Not Available
<b>Explosive properties:</b>	Not explosive		UFL/UEL: Not Available
<b>Decomposition temperature:</b>	Not Available	<b>Surface tension:</b>	

**Other information:** Amounts specified are typical and do not represent a specification.

**SECTION 10: Stability and reactivity**

**Reactivity:** None known.

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**Chemical stability:** This product is stable.

**Possibility of hazardous reactions:** Hazardous polymerization will not occur. This product will autopolymerize at very high temperatures.

**Conditions to avoid:** Avoid dust formation.

**Incompatible materials:** Avoid strong acids, bases, and oxidizing agents. Avoid contact with amines.

**Hazardous decomposition products:** Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Phenolics.

## SECTION 11: Toxicological information

### Information on likely routes of exposure:

**General:** Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure. TALC: Repeated or prolonged inhalation of airborne dust of this material may cause pneumoconiosis. Irritation may occur which can progress to scarring of the lungs (pulmonary fibrosis).

**Eyes:** Solid particles on the eye (powder/dust) may cause pain and be accompanied by irritation.

**Skin:** May cause skin irritation. May cause allergic skin reaction.

**Inhalation:** Dust inhalation may cause respiratory irritation.

**Ingestion:** Ingestion may cause irritation.

**Acute toxicity information:** Not classified (based on available data, the classification criteria are not met). No toxicity studies have been conducted on this product. ATEmix (oral): >2000 mg/kg. ATEmix (dermal): >2000 mg/kg.

<u>Chemical Name</u>	<u>Inhalation LC50</u>	<u>Species</u>	<u>Oral LD50</u>	<u>Species</u>	<u>Dermal LD50</u>	<u>Species</u>
Bisphenol A epoxy - CTBN rubber adduct	N/E	N/E	>2000 mg/kg	Rat/ adult	>2000 mg/kg	Rabbit/ adult
Bisphenol A epoxy resin	N/E	N/E	>2000 mg/kg	Rat/ adult	>2000 mg/kg	Rabbit/ adult
Talc	N/E	N/E	N/E	N/E	N/E	N/E

**Skin corrosion/irritation:** Not classified.

<u>Chemical Name</u>	<u>Skin irritation</u>	<u>Species</u>
Bisphenol A epoxy - CTBN rubber adduct	N/E	N/E
Bisphenol A epoxy resin	Slight irritant	Guinea pig/ adult
Talc	Mild-slight irritant	Human

**Serious eye damage/irritation:** Not classified.

<u>Chemical Name</u>	<u>Eye irritation</u>	<u>Species</u>
Bisphenol A epoxy - CTBN rubber adduct	N/E	N/E
Bisphenol A epoxy resin	N/E	N/E
Talc	N/E	Human

**Respiratory or skin sensitization:** Skin sensitization - Category 1.

<u>Chemical Name</u>	<u>Skin sensitisation</u>	<u>Species</u>
Bisphenol A epoxy - CTBN rubber adduct	N/E	N/E
Bisphenol A epoxy resin	Sensitizer	Guinea Pig/ adult
Talc	N/E	N/E

**Carcinogenicity:** Not classified.

**Germ cell mutagenicity:** Not classified. BISPHENOL A EPOXY RESIN: Mutagenicity was negative in in-vivo genotoxicity assays. Mixed results were seen in in-vitro genotoxicity assays.

**Reproductive toxicity:** Not classified.

**Specific target organ toxicity (STOT) - single exposure:** Not classified.

**Specific target organ toxicity (STOT) - repeated exposure:** Not classified.

**Aspiration hazard:** Not classified (technical impossibility to obtain the data).

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Other toxicity information: No additional information available.

## SECTION 12: Ecological information

### Ecotoxicity:

<u>Chemical Name</u>	<u>Species</u>	<u>Acute</u>	<u>Acute</u>	<u>Chronic</u>
Bisphenol A epoxy - CTBN rubber adduct	Fish	LC50 1-100 mg/L (96 hours) (similar materials)	N/E	N/E
Bisphenol A epoxy - CTBN rubber adduct	Invertebrates	EC50 1-100 mg/L (48 hours) (similar materials)	N/E	N/E
Bisphenol A epoxy - CTBN rubber adduct	Algae	N/E	N/E	N/E
Bisphenol A epoxy resin	Fish	LC50 1-10 mg/L (96 hours) (similar materials)	N/E	N/E
Bisphenol A epoxy resin	Invertebrates	EC50 1-10 mg/L (48 hours) (similar materials)	N/E	N/E
Bisphenol A epoxy resin	Algae	EC50 10-100 mg/L (96 hours) (similar materials)	N/E	N/E
Talc	Fish	LC50 >100 mg/L (96 hours)	N/E	N/E
Talc	Invertebrates	N/E	N/E	N/E
Talc	Algae	N/E	N/E	N/E

### Persistence and degradability:

<u>Chemical Name</u>	<u>Biodegradation</u>
Bisphenol A epoxy - CTBN rubber adduct	Not readily biodegradable
Bisphenol A epoxy resin	Not readily biodegradable
Talc	N/E

### Bioaccumulative potential:

<u>Chemical Name</u>	<u>Bioconcentration Factor (BCF)</u>	<u>Log Kow</u>
Bisphenol A epoxy - CTBN rubber adduct	N/E	N/E
Bisphenol A epoxy resin	N/E	N/E
Talc	no known bioaccumulation	N/E

### Mobility in soil:

<u>Chemical Name</u>	<u>Mobility in soil (Koc/Kow)</u>
Bisphenol A epoxy - CTBN rubber adduct	N/E
Bisphenol A epoxy resin	N/E
Talc	N/E

Other adverse effects: No additional information available.

## SECTION 13: Disposal considerations

Dispose of unused contents (incineration or landfill) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate.

See Section 8 for recommendations on the use of personal protective equipment.

## SECTION 14: Transport information

The information below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions.

UN number: UN3077

### UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (Bisphenol A epoxy resin)

### Transport hazard class(es):

U.S. DOT hazard class: N/A

Canada TDG hazard class: N/A

Europe ADR/RID hazard class: 9

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IMDG Code (ocean) hazard class: 9

ICAO/IATA (air) hazard class: 9

A "N/A" listing for the hazard class indicates the product is not regulated for transport by that regulation.

Packing group: III

Environmental hazards:

Marine pollutant: Marine Pollutant (IMDG code 2.9.3).

Hazardous substance (USA): Not Applicable

Special precautions for user: Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Chemical Name

Bisphenol A epoxy resin

Category

Category X

Notes: For surface shipments within the United States: Not regulated.

## SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question:

Japan regulations:

Japan Industrial Safety and Health Law:

Chemical name

Bisphenol A epoxy resin

Category

Mutagen (new and existing)

Japan Fire Service Law:

Chemical name

No subject chemicals

Category

Japan Poisonous and Deleterious Substances:

Chemical name

No subject chemicals

Category

Threshold

Japan Prevention of Marine Pollution and Disaster:

Chemical name

Bisphenol A epoxy resin

Category

Noxious Category X

Japan Chemical Substances Control Law:

Chemical name

Bisphenol A epoxy resin

Category

Priority assessment chemical

Notes

Substance control number 87

Korean regulations:

Korea Industrial Safety and Health Act:

Chemical name

Talc

Category

Dust

Threshold

N/E

Korea Act on Registration and Evaluation of Chemical Substances (K-REACH) - Substances subject to registration:

No subject chemicals

Korea Chemical Control Act (CCA):

Chemical name

Talc

Category

Prohibited substance

Code

06-4-60

Threshold

N/E

Korea Safety Control of Dangerous Substances Act (MPSS):

Chemical name

No subject chemicals

Class

Threshold

Korea Waste Control Act: Waste disposal methods must comply with local and national laws.

Chemical name

No subject chemicals

Notes

Other regulations: No Additional Information

Chemical inventories:

Regulation

Australian Inventory of Chemical Substances (AICS):

Status

Y

Canadian Domestic Substances List (DSL):

Y

Canadian Non-Domestic Substances List (NDSL):

N

China Inventory of Existing Chemical Substances (IECSC):

Y

European EC Inventory (EINECS, ELINCS, NLP):

Y

Japan Existing and New Chemical Substances (ENCS):

Y

Japan Industrial Safety and Health Law (ISHL):

Y

<u>Regulation</u>	<u>Status</u>
Korean Existing and Evaluated Chemical Substances (KECL):	Y
New Zealand Inventory of Chemicals (NZIoC):	Y
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Y
Taiwan Inventory of Existing Chemicals:	Y
U.S. Toxic Substances Control Act (TSCA) (Active):	Y

A "Y" listing indicates all intentionally added components are either listed or are otherwise compliant with the regulation. A "N" listing indicates that for one or more components: 1) there is no listing on the public inventory (or is not on the ACTIVE inventory for U.S. TSCA); 2) no information is available; or 3) the component has not been reviewed. A "Y" for New Zealand may mean that a qualified group standard may exist for the components in this product.

**Chemical inventory notes:** New Zealand: One or more components may be covered by a group standard.

**Europe REACH (EC) 1907/2006:** This product is considered a polymer under Regulation (EC) 1907/2006 and is exempt from the requirement for registration. Applicable monomers/other reactants are registered, exempt or otherwise compliant. REACH is only relevant to substances either manufactured or imported into the EU. Emerald Performance Materials has met its obligations under the REACH regulation. REACH information regarding this product is provided for informational purposes only. Each Legal Entity may have differing REACH obligations, depending on their place in the supply chain. For material manufactured outside of the EU, the importer of record must understand and meet their specific obligations under the regulation.

## SECTION 16: Other information

### Legend:

\* : Trademark owned by Emerald Performance Materials, LLC.

ACGIH: American Conference of Governmental Industrial Hygienists

N/A: Not Applicable

N/E: None Established

STEL: Short Term Exposure Limit

TWA: Time Weighted Average (exposure for 8-hour workday)

### Users Responsibility/Disclaimer of Liability:

The information set forth herein is based on our current knowledge, and is intended to describe the product solely with respect to health, safety and the environment. As such, it must not be interpreted as a guarantee of any specific property of the product. As a result, the customer shall be solely responsible for deciding whether said information is suitable and beneficial.

Safety Data Sheet Preparer:

Product Compliance Department

Emerald Performance Materials, LLC

1499 SE Tech Center Place, Suite 300

Vancouver, WA 98683

United States