



MATERIAL SAFETY DATA SHEET

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1- COMMERCIAL NAME : Akabond 631PT Epoxy Resin

Do not handle this material until the manufacturer's safety precautions have been read and understood! Regulations require that all employees be educated & trained on the Material Safety Data Sheets for all products with which they come in contact.

2- COMPOSITION/INFORMATION ON INGREDIENTS :

CHEMICAL NAME	C.A.S No.	QTY%
1. Bisphenol F Epoxy Resin	28064-14-4	50-60
2. Orthocresyl Glycidyl Ether	2210-79-9	10-20
3. N/A	N/A	N/A

3- HAZARDS IDENTIFICATION :

- Irritating (moderate) to the eyes and skin.
- May cause sensitization by skin contact.
- Avoid breathing vapors/mists, especially during machining, or when heated.

4- FIRST AID MEASURES :

- **Where a serious accident occurs, seek medical advice immediately.**
- **Change any soiled clothing immediately.**
- **In case of eye contact** : open eyelids as far as possible and flush with large quantities of water for at least fifteen minutes. Contact a physician, preferably an eye specialist.
- **In case of skin contact** : physically remove the product and wash skin thoroughly with soap and water. Seek medical attention if after-effects occur.
- **In case of swallowing** : Give the conscious patient 1-2 glasses of water to dilute - **DO NOT** induce vomiting unless instructed by physician. Seek immediate medical attention.
- **In case of inhalation** : remove the patient from the contaminated area, give oxygen if necessary. Consult physician if after-effects occur.

5- FIRE-FIGHTING MEASURES :

5-1 Fire-extinguisher types :

- Use : chemical foam, CO₂, powder. Where the fire is of major proportions, water spray may also be used.
- Do not use : N/A

5-2 Specific fire and explosion risks :

- Incomplete combustion or pyrolysis mainly produces oxides of water and carbon. Closed/sealed containers could rupture violently when exposed to elevated fire conditions.

5-3 specific protective measures during firefighting :

- Firefighting personnel should be equipped with insulated, autonomous respiratory protection equipment.

COMMERCIAL NAME : Akabond 631PT Epoxy Resin**6- ACCIDENTAL RELEASE MEASURES :****6-1 Individual protection :**

Wearing of suitable protective clothing and protective equipment for face/eyes; wear suitable respiratory equipment if ventilation is insufficient. Keep unprotected personnel away.

6-2 Environmental protection : Please see § 12

6-3 Decontamination procedures :

- Contain spilt material in order to avoid its transfer to sewers or rivers and streams.
- Physically remove the material.
- Cover material with sand, earth, or any other similar absorbent material in order to soak product up. The resulting mix may then be shoveled into cans and removed for disposal (see §13).

7- HANDLING AND STORAGE :**7-1 Handling :**

- Inform personnel of risks associated with the product, the precautions to be taken and procedures to follow where an accident occurs.
- Observe personal hygiene rules to avoid contact with eyes and skin.
- Avoid dusts generated during machining (cured material); wear appropriate dust mask.
- Avoid inhaling vapors produced by the material, **especially when heated and/or sprayed.**
- Install showers and eye baths ("fountain" type).
- Ensure sufficient ventilation, including appropriate local air extraction, in order to comply with workplace exposure limits.
- Wash hands thoroughly at beginning of every work break and at the end of the working day.
- Work stations and the general working area must be kept perfectly clean.
- Avoid exposure to the product of persons having suffered from eczema or still suffering from any skin condition, wound, cut or irritation.

7-2 Storage :

- Keep the material hermetically sealed in its original packaging, protected from humidity and at a temperature between 59 and 77°F / 15 and 25°C in a well-ventilated storage facility.
- Ensure that the floor of the storage area is impermeable and concave in profile in order to provide effective containment.
- Keep the product away from food.
- Reproduce labeling on all new packs where original packaging is divided.

8- EXPOSURE CONTROLS/PERSONAL PROTECTION :**8-1 Exposure controls :**

Always maintain workplace airborne contaminants to the lowest possible levels.

8-2 Personal protection :

- respiratory protection : NO, when vapors are below PEL recommendations (See section 15).
- eye protection : YES, safety glasses with side shields, or chemical-goggles and faceshield.
- skin protection : YES, protective gloves, such as nitrile, butyl, PVC, rubber, or neoprene.

Do not mix work clothing and normal clothing. Wash hands thoroughly at beginning of every work break and at the end of the working day.

COMMERCIAL NAME : Akabond 631PT Epoxy Resin**9- PHYSICAL AND CHEMICAL PROPERTIES :**

Physical state : liquid

Color : water clear

Odor : characteristic

pH : not established

Flash point : >230°F / 110°C

Decomposition temperature : >392°F / 200°C

VOC Content : no VOC's for this product

Specific gravity : 1.19

Solubility : in water (at 68°F) - nil; in solvents - YES (soluble in many organic solvents)

10- STABILITY AND REACTIVITY :**10-1 Dangerous decomposition by-products :**

- These are non-existent if storage and handling rules are followed (please see also § 5-2).
- Excessive heating over long periods causes resin degradation.

10-2 Hazardous reactions with :

- Exothermic reaction with products containing active hydrogen (especially acids, alcohols, bases, ammonia, amines, or polymercaptans, etc.). Hazardous polymerization will not occur.

11- TOXICOLOGICAL INFORMATION :

Effects on eyes : may cause slight temporary irritation.

Effects on skin : repeated or prolonged single exposure may cause irritation to the skin. May cause a subcutaneous allergic reaction in predisposed individuals. **LD50(rabbit): >2,000 mg/kg (Bisphenol A);**

Inhalation : no foreseeable harmful effects.

Ingestion : low toxicity for a single oral dose. **LD50 (rat): 2,000 mg/kg (Bisphenol A)**

Carcinogenicity : not listed as an IARC, OSHA, or ACGIH potential carcinogen.

12- ECOLOGICAL INFORMATION :**Based on data for one or more similar products :**

- **Ecotoxicity :** not established
- **Biodegradability :** not established

Additional information : waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration.

13- DISPOSAL CONSIDERATIONS :

All disposal methods must be in compliance with all Federal, State/Provincial and local regulations. Regulations may vary in different locations. Waste characteristics and compliance with applicable laws are the responsibility solely of the waste generator. Empty containers may not be disposed of unless any remaining material adhering to the internal walls has been removed (see § 6.3).

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14- TRANSPORT INFORMATION :

DOT Regulations/Information :

- Not covered by D.O.T. regulations

Internal label : Irritant

15- REGULATORY INFORMATION :

US Federal Regulation :

Toxic Substances Control Act (TSCA) :

All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

OSHA Hazard Communication Standard Hazard Classes : Irritant

Non-hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA PEL/TWA : none established for the materials in this product

ACGIH TLV/TWA : none established for the materials in this product

EPA SARA Title III Section 312 Hazard Class : immediate health hazard, delayed health hazard

EPA SARA Title III Section 313 Toxic Chemicals : none

16- OTHER INFORMATION :

HMIS Ratings:

Health. Flammability. Reactivity

2.1.0.

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, * = Chronic Health Hazard

REVEALING MODIFICATION : E1.PDF

Revised : 3/30/2009 Supersedes sheet : 8/29/2007 This sheet provides a complement to the product use instructions but does not replace them. The information it contains is based on our current knowledge of the product concerned at the date of drafting. That information is given in good faith and does not in any circumstances remove from the user his duty to be aware of and to follow all legal regulations and statutes covering his activities. The user takes sole responsibility for application of safety measures covering the use of the product he is aware of. We also draw the user's attention to the risks attached to any use of the product for applications for which it was not designed.
03/2006