

V. HEALTH HAZARD INFORMATION

PRIMARY ROUTES OF EXPOSURE:

Dermal

ORAL LD50:

(Rats) >5,000 Mg/Kg

DERMAL LD50:

(Rabbits) >6,000 Mg/Kg

SKIN IRRITATION:

(Rabbit) Moderate irritation

EYE IRRITATION:

(Rabbit) Slight irritation

SENSITIZATION:

Moderate sensitizer

TERATOGENICITY:

(Rats, rabbits) No adverse effects on embryonic or fetal development were observed

MUTAGENICITY:

AMES Tests: Both positive and negative results

Hamster Bone marrow cytogenetics (In vivo): Negative

Mouse spermatocytes cytogenetics (In vivo): Negative

Micronucleus Test (In vivo): Negative

Mouse dominant lethal test: Negative

Alkylation of DNA: Positive

Human mononucleated WBC (In vitro): Negative

Host mediated assay: Negative

SUBCHRONIC ORAL FEEDING STUDIES:

(Rats) No observable effect at highest level studied (1,000 Mg/Kg/Day for 28 Days)

OVEREXPOSURE-CHRONIC:

2-Year Dermal study in mice: No treatment related effects

2-Year Skin painting studies:

A) C3HF/BD Mice: No increased tumor incidence

B) C57BL/6BD Mice: Slight increase in epidermal localized carcinomas at high dose

C) C3H Mice: No tumors

Mice receiving skin applications of the diglycidyl ether of bisphenol A or essentially identical resins for two years have yielded very limited evidence of weak carcinogenicity. The published report on this study concludes that this resin product "is not a systemic carcinogen when applied to the skin of CF1 mice" and the tumor data "was of no biological importance". Based on all available data, IARC (International Agency for Research on Cancer) has concluded that DGEBA is not classified as a carcinogen.

OVEREXPOSURE EFFECTS:

Irritation, sensitization and dermatitis

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Allergy, eczema or skin conditions

EMERGENCY AND FIRST AID PROCEDURES – EYES:

For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

EMERGENCY AND FIRST AID PROCEDURES – SKIN:

For skin contact, wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

EMERGENCY AND FIRST AID PROCEDURES – INGESTION:

If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.

EMERGENCY AND FIRST AID PROCEDURES – INHALATION:

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

EMERGENCY AND FIRST AID PROCEDURES – OTHER:

Promptly remove wet, contaminated non-impervious clothing. Wash before reuse.

VI. REACTIVITY DATA

Stability: Stable Unstable

Incompatibility (materials to avoid): Strong oxidizing agents

Hazardous polymerization: May occur Will not occur

Conditions to avoid: Elevated temperatures. Contact with strong acids or bases in bulk.

Hazardous decomposition products (including combustion products): Carbon monoxide, carbon dioxides, aldehydes

VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Spill response procedures (include employee protection measures): Not Applicable

Preparing wastes for disposal (container types, neutralization, etc.): Dispose in accordance with Federal, State and local regulations

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and engineering controls: Use in good ventilation

Respiratory protection (type): If needed, organic chemical cartridge respirator

Eye protection (type): Not applicable for splash; do not rub eyes with contaminated hands.

Gloves (specify material): Impervious gloves.

Other clothing and equipment: Not Applicable

Work practices, hygienic practices: Keep away from food stuffs. Keep all tools and working areas clean.

Other handling and storage requirements: Not Applicable

Protective measures during maintenance of contaminated equipment: Not Applicable