

M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

PRODUCT NAME:
D.E.R. (R) 662 EPOXY RESIN

Product Code: 19342

Page: 1

Effective Date: 06/04/87

Date Printed: 07/15/87

MSDS: 000369

1. INGREDIENTS:

Polymers of epoxy resin &
bisphenol A

CAS# 025036-25-3 100%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: Not applicable
VAP. PRESS: Not applicable
VAP. DENSITY: Not applicable
SOL. IN WATER: None
SP. GRAVITY: 1.18
APPEARANCE: Pale yellow solid (flakes).
ODOR: Odorless as supplied.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: Decomposes prior to flashing.
METHOD USED: Not applicable.

FLAMMABLE LIMITS

LFL: Not applicable to solids.
UFL: Not applicable to solids.

EXTINGUISHING MEDIA: Water fog, CO2, dry chemical.

FIRE & EXPLOSION HAZARDS: Solid epoxy resins dust freely when handled. The confined dust, when suspended in air, is flammable and poses a definite fire and explosion hazard if ignited. Good housekeeping and dust control are required.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and a slicker suit.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Amines/base.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acid, base.

(Continued on Page 2)

(R) Indicates a trademark of The Dow Chemical Company

DO 086392
CONFIDENTIAL

M A T E R I A L S A F E T Y D A T A S H E E T

"Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

PRODUCT NAME:
D.E.R. (R) 662 EPOXY RESIN

Product Code: 19342

Page: 2

Effective Date: 06/04/87

Date Printed: 07/15/87

MSDS: 000369

4. REACTIVITY DATA: (CONTINUED)

HAZARDOUS DECOMPOSITION PRODUCTS: Products generated by thermal decomposition depend on whether pyrolysis or combustion or a combination of the two occurs. The by-products expected in incomplete pyrolysis or combustion of epoxy resins are mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken.

HAZARDOUS POLYMERIZATION: Will not occur by itself, but masses of more than 1 pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Sweep up and discard.

DISPOSAL METHOD: Burn in adequate incinerator or bury in an approved landfill. Comply with applicable local, state, and federal regulations.

6. HEALTH HAZARD DATA:

EYE: May cause slight eye irritation. Solid or dusts may cause irritation or corneal injury due to mechanical action.

SKIN CONTACT: Prolonged or repeated exposure not likely to cause significant skin irritation.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in absorption of harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg.

INGESTION: Single dose oral toxicity is low. The LD50 for rats is >2000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.

INHALATION: Vapors are unlikely due to physical properties.
Single exposure to dust is not likely to be hazardous.

SYSTEMIC & OTHER EFFECTS: No relevant information found. Similar epoxy resin did not cause cancer in long-term animal studies.

7. FIRST AID:

DO 086393
CONFIDENTIAL.

M A T E R I A L S A F E T Y D A T A S H E E T

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

PRODUCT NAME:
D.E.R. (R) 662 EPOXY RESIN

Product Code: 19342

Page: 3

Effective Date: 06/04/87 Date Printed: 07/15/87 MSDS: 000369

7. FIRST AID: (CONTINUED)

•EYES: Irrigate immediately with water for at least 5 minutes.
Mechanical effects only.

SKIN: Wash off in flowing water or shower.

INGESTION: Induce vomiting if large amounts are ingested.
Consult medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care.
Treatment based on judgment of the physician in response to
reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be sufficient for most conditions.

RESPIRATORY PROTECTION: In dusty atmospheres, use an approved dust respirator.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use safety glasses. Where contact with this material is likely, chemical goggles are recommended because eye contact may cause pain even though it is unlikely to cause injury.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Practice caution and personal cleanliness. Avoid skin and eye contact. Avoid breathing dust or vapors of heated material.

MSDS STATUS: Revised sections 6, 7, and 8.

DO 086394
CONFIDENTIAL

The Information Herein Is Given In Good Faith, But No Warranty,
Express Or Implied, Is Made. Consult The Dow Chemical Company
For Further Information.

DO 086395
CONFIDENTIAL

(Continued on Page 3)

(R) Indicates a trademark of The Dow Chemical Company

DO 086396
CONFIDENTIAL