

Safety Data Sheet

Date: 2006/02/17 Revision date: 2013/10/16

1. Product and company identification

Product name : EPOXY MOLDING COMPOUND for Optical Semiconductor

Name of product : NT-8524H-11000

Supplier product code: 71076-10-48-3-1-E

Company identification

Name of supplier : NITTO DENKO CORPORATION KAMEYAMA PLANT

ZIP code : 519-0193

Address : 919, FUKE, KAMEYAMA, MIE, JAPAN

A section in charge: Quality Assurance Administration Section

Telephone number : 81-595-84-2840 Fax number / e-mail: 81-595-82-8613

Emergency telephone number: 81-595-82-1151

Recommended use or EPO

EPOXY MOLDING COMPOUND for Optical Semiconductor

limitations on use:

2. Hazards identification

GHS Classification Unclassified

GHS label element

Symbol or pictogram: No pictogram

Hazards not available GHS NA

classification:

NA

3. Composition / information on ingredients

Substance or Mixture: Mixture

The common chemical name or the generic name	Bisphenol-A Epoxy Resin	Tris(2,3-Epoxypropyl) Isocyanurate	Acid anhydride
Synonyms	NA	NA	NA
CAS number	25068-38-6	2451-62-9	85-43-8
Concentration and concentration range(wt%)	45-60	13	20-35
The impurities and stabilizing additives	NA	NA	NA
EINECS / REACH Registration No:			

The common chemical name or the generic name	2,6-Ditert.tart • buty1-4-Methylphenol	
Synonyms	NA	
CAS number	128-37-0	
Concentration and concentration range(wt%)	0. 1-1. 0	



The impurities and stabilizing additives	NA	
EINECS / REACH Registration No:		
Symbol;R-phrase	NA	

4. First-aid measure

Inhalation: If affected, move to fresh air. Keep the victim at rest.

Skin contact: Wipe off adhering powder and wash exposed area with lots of water and soap. Contact a

physician if irritation occurs.

Eye contact: Immediately flush with large amounts of water for at least 15 minutes. Examination and

treatment by a physician if necessary.

Ingestion: Give the water and try to get the victim to vomit. Contact a physician as soon as

possible.

The most important No information

symptoms and effects:

Protection of Wear protective gloves/protective clothing/eye protection/face protection

first-aiders:

Special notes to a No information

physician:

5. Fire-fighting measures

Carbon dioxide, powder, form, and dry sand Extinguishing media:

NOT suitable extinguishing

media:

Water in a jet.

Specific hazards: Dark smoke is generated at a fire.

Extinguish fire toward the leeward after removing the cause of fire. Specific methods:

Protection of Wear full protective clothing and self-contained breathing apparatus with full

fire-fighters: face-piece.

6. Accidential release measures

Personal precautions: Persons not wearing protective equipment should be excluded from the area of the spill

until clean-up has been completed.

Protective equipment and

emergency measures:

Wear proper protective equipment (PPE) while at work to protect skin contact or inhale

Environmental precautions:

Method and materials for

containing:

Prevent spills to river, drainage etc. Remove all possible sources of ignition.

Collect the product in empty containers after absorbing in cotton rag, soil or sand.

Wash the area with plenty of water.

7. Handling and storage

Handling

Technical measures: Use only outdoors or in a well-ventilated area.

Local and general ventilation:

Precaution:

Wear mask with the activated carbon, the protective glove, and the protection clothes

Apply whole ventilation over processing areas and local ventilation on molding

Safe handling advice (avoidance of contact): Avoid contact with strong acids or alkalis.

Storage

Technical measures: Keep containers closed.

Suitable storage

Keep under 5 degreeC in closed containers and away from direct sunlight, heat .

conditions: Storage conditions to be

Avoid keeping in higher temperature.



avoided:

Incompatible products: Strong acids or alkalis.

Packaging materials: Closed or covered containers which have shock-absorbing function.

8. Exposure controls / personal protection

Standard control Not established.

concentration:

Control parameters: Tris(2, 3-Epoxypropyl) Isocyanurate ACGIH TWA 0.05mg/m3

Engineering measures: Apply whole ventilation over processing areas and local ventilation on necessary

place.

Personal protective equipment

Wear mask with the activated carbon. Respiratory protection: Hand protection: Wear impervious protective gloves.

Eye protection: Dust-tight goggles.

Skin and body Clothes of the long sleeve are recommended.

protection:

Hygiene measures: Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Form: Tablet or Powder

Color: White

Odor: Smell of epoxy and acid

:Ha

Fusing point: 50-65 degreeC (Softening temperature)

Boiling point: No data Boiling range: No data Flash point: No data

Spontaneous ignition above 200 degreeC

temperature:

The upper and lower limit No data

of ignition or explosion

range:

No data Vapour pressure: No data Vapour density:

1.21-1.27 (Cured sample at 25 degreeC) Specific gravity: Solubility: Not miscible in water, miscible in Ketone.

Octanol / water partition

coefficient:

No data

Decomposition temperature: above 200 degreeC

10. Stability and reactivity

Stability: Stable below 5 degreeC,

Shelf life: according to our specification.

Hazardous stability: May occur extraordinary reaction when contacted with strong acids, alkalis or oxidant

and generate toxicity gas.

Condition to avoid: Store in high temperature or humidity.

Incompatible products: Strong acids, oxidizing agents or oxidant.

Hazardous decomposition Thermal decomposition may form carbon monoxide, carbon dioxide, nitrogen oxide and

products: water vapor.

11. Toxicological information



Acute toxicity: Oral LD50(Rat)

Bisphenol-A Epoxy Resin : 2000mg/Kg <

Tris(2, 3-Epoxypropyl) Isocyanurate : 305mg/Kg <

Acid anhydride : 5410mg/Kg <

2, 6-Di-tert-butyl-4-Methyl phenol : Rat LD50 890-3510mg/kg

Skin corrosion property

/stimulativeness:

Critical damage and No data

stimulativeness to eye:

Respiratory organs No data

sensitization or skin

sensitization:

Generative cell No data

mutagenicity:

Carcinogenicity: No data
Reproductive toxicity: No data
Specified target organ / No data
general toxicity - single

exposure:

Specified target organ /

general toxicity repetitive exposure:

Aspiration respiratory

organs hazard:

No data

No data

No data

12. Ecological information

Persistence/degradability: No data
Bioaccumulation: No data
Mobility in soil: No data
Ozone depletion potential: No data

13. Disposal considerations

Waste from residues: Dispose to licensed disposal processor.

Contaminated packaging: Remove all packaging for recovery or waste disposal. Dispose as industrial waste.

14. Transport information

International regulations

UN classification: NA

Japanese regulations: Fire Defense Law

Special safety measures: Confirm no leakage of containers on transportation.

Take in a cargo of them without falling, dropping and breakage. Prevent collapse of

cargo piles

15. Regulatory information

Local regulation: It is necessary to follow all regulations in your country.

Foreign regulation: Tris(2, 3-Epoxypropyl) Isocyanurate US California proposition 65

16. Other information

Contents are based on documents, information and data which are available at this time, but nothing is guaranteed as regards content, physical and chemical properties, hazards. Also precautions are subject



to ordinary handling, so please take safety measures as usage in special cases.