MATERIAL SAFETY DATA SHEET
Nadic Methyl Anhydride

Date of Issue: 18 Sept. 06

STATEMENT OF HAZARDOUS NATURE
Hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company: 
ProSciTech 
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IDENTIFICATION SECTION

Product Name
Other Names
Nadic Methyl Anhydride
NMA
Product Code
C046
U.N. Number
UN1760
Dangerous Goods Class
8
and Subsidiary Risk
None allocated
Hazchem Code
3X
Poison Schedule
None allocated
Use
Epoxy hardener

Physical Description and Properties

Appearance
Pale tan liquid, slight odour
Boiling Point/Melting Point
BP 140°C @ 10mm Hg
Vapour Pressure
5.0mm Hg @ 120°C
Specific Gravity
1.245 @ 15.4/4°C
Flash Point
135°C (COC)
Flammability Limits
Not determined
Solubility in water
Insoluble in water, but will hydrolyse to diacid in presence of water.

Other Properties

Ingredients

Chemical Name
Nadic Methyl Anhydride

CAS Number
25134-21-8

Proportion
99% min
HEALTH HAZARD INFORMATION

Health Effects:

Acute
Swallowed: Probably causes pain, nausea and vomiting
Eye: Causes conjunctivitis, chemosis, corneal opacity, discharges, blurred vision
Skin: Causes erythema, itching, dermatitis, oedema
Inhaled: Causes nasal irritation, discharge, coughing, difficulty in breathing. If sensitised, can cause asthmatic reactions, severe breathing difficulty, chest pains, collapse.

Chronic: Asthma and chronic pulmonary conditions may be aggravated by exposure.

First Aid:
Swallowed: If person is conscious, give water or milk to dilute. Do not attempt chemical neutralisation. DO NOT INDUCE VOMITING. Get prompt medical attention.
Eye: Wash continuously with water for 15 minutes. Get prompt medical attention.
Skin: Wash continuously with water for 15 minutes. Wash contaminated clothing before reuse. Discard contaminated shoes.
Inhaled: Remove from exposure. Apply artificial respiration if not breathing. Eye bath, safety shower

Advice to Doctor

PRECAUTIONS FOR USE

Exposure Standards: TWA 5.0mg/m³
Engineering Controls: Local exhaust
Personal Protection: Wear safety glasses with cup side shields. Full face shield if there is any possibility of splashing or eye contact. Wear appropriate, clean protective clothing to prevent skin contact including long sleeved shirt, buttoned at wrist, and impervious gloves. Shower at completion of each work shift.

Flammability: Avoid excessive temperatures.

SAFE HANDLING INFORMATION

Storage and Transport: Store between 18°C and 40°C to avoid freezing and excessive vapours. Keep container closed. Store out of contact with moisture to avoid hydrolysis to free acid. Thaw frozen material below 40°C and mix well before using. Dangerous Goods Class 8. Correct shipping name: corrosive liquid, n.o.s. (Nadic Methyl Anhydride)

Spills and Disposal: Clean up spills promptly. Avoid contact with liquid and vapours. Wear rubber boots and heavy rubber gloves. Ventilate confined areas. Absorb spills using absorbent material and pick up. Hose spill area down with water. Disposal method: deposit absorbent material saturated with product is separate, labelled, leakproof container and take to an approved treatment, storage or disposal facility. Observe all federal, state and local environmental regulations. Special fire fighting procedures: respiratory protection against vapours and combustion products. Extinguishing media: foam, carbon dioxide, water in copious amounts. There are no unusual hazards when product is in drums unless fire causes material to heat up or burn. The vapours and fumes can cause serious respiratory problems. Hazardous incomplete combustion products: carbon monoxide, carbon dioxide, aldehydes, organic acids, smoke.
OTHER INFORMATION

Incompatibilities (Materials to avoid)
Water, acid, base, oxidising material. Note: material will react with water or steam to produce heat. However, water in copious amounts is appropriate for fighting fires.
Ingestion oral LD50: In RAT 958 (856-1077)mg/kg (as is)
In RAT 172mg/kg (in olive oil)
Absorption Dermal LD50: On RBT >2000mg/kg
Inhalation LC50 (4 hour) as aerosol: In RAT mortality 8/10
@ 750mg/m3 in 7 days
Irritation:
Skin (RBT) 50% in PEG 400: 0.75 on scale of 8 (Draize)
Skin (RBT) as is 3.9 on scale of 8 (Draize)
Eyes (RBT) no wash: 83 on scale of 110 (Draize)
Eyes (RBT) washout after 4 sec.: 12-37 on scale of 100.

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