# 5-Norbornene-2-Carboxamide 95-17-0 MSDS

## Section 1. IDENTIFICATION

Product name: 5-Norbornene-2-carboxamide (mixture of isomers)

# Section 2. HAZARDS IDENTIFICATION

**GHS** classification PHYSICAL HAZARDS Not classified Not classified **HEALTH HAZARDS ENVIRONMENTAL HAZARDS** Not classified GHS label elements, including precautionary statements **Pictograms or hazard symbols** None No signal word Signal word Hazard statements None None **Precautionary statements:** 

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:SubstanceComponents:5-Norbornene-2-carboxamide (mixture of isomers)Percent:>98.0%(HPLC)(N)CAS Number:95-17-0Synonyms:Bicyclo[2.2.1]hept-5-ene-2-carboxamide (mixture of isomers)Chemical Formula:C8H11NO

# Section 4. FIRST AID MEASURES

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

**Skin contact:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Get medical advice/attention if you feel unwell. Rinse mouth.

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-

tight goggles.

# Section 5. FIRE-FIGHTING MEASURES

 Suitable extinguishing
 Dry chemical, foam, water spray, carbon dioxide.

 media:
 Specific hazards arising Take care as it may decompose upon combustion or in high temperatures to

 from the chemical:
 generate poisonous fume.

 5-Norbornene-2-carboxamide (mixture of isomers)

#### Section 5. FIRE-FIGHTING MEASURES

# Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing

method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

**Special protective** When extinguishing fire, be sure to wear personal protective equipment.

equipment for firefighters:

# Section 6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Keep people away from and upwind of spill/leak.

# Personal precautions,

protective equipment and Entry to non-involved personnel should be controlled around the leakage area by

emergency procedures: roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for Sweep dust to collect it into an airtight container, taking care not to disperse it.

containment and cleaning Adhered or collected material should be promptly disposed of, in accordance with

up: appropriate laws and regulations.

# Section 7. HANDLING AND STORAGE

## Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment.

# **Technical measures:**

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

# Conditions for safe storage, including any

#### incompatibilities

**Storage conditions:** Keep container tightly closed. Store in a cool and dark place.

Store away from incompatible materials such as oxidizing agents.

**Packaging material:** Comply with laws.

# Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Install a closed system or local exhaust as possible so that workers should not be

# **Engineering controls:**

exposed directly. Also install safety shower and eye bath.

## Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires.

Skin and body protection: Protective clothing. Protective boots, if the situation requires.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid Form: Crystal- Powder White - Pale yellow Colour: Odour: No data available pH: No data available Melting point/freezing point:188°C No data available Boiling point/range: Flash point: No data available Flammability or explosive limits: No data available Lower: Upper: No data available No data available **Relative density:** Solubility(ies): No data available [Water] [Other solvents] Dimethyl sulfoxide(DMSO) Slightly soluble: 5-Norbornene-2-carboxamide (mixture of isomers)

# Section 10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions. Possibility of hazardous No special reactivity has been reported. reactions: Incompatible materials: Oxidizing agents Hazardous decomposition Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx) products:

# Section 11. TOXICOLOGICAL INFORMATION

No data available Acute Toxicity: Skin corrosion/irritation: No data available No data available Serious eye damage/irritation: Germ cell mutagenicity: No data available Carcinogenicity: No data available IARC = NTP = No data available No data available Reproductive toxicity:

Section 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity:** Fish: No data available No data available Crustacea: No data available Algae: Persistence / degradability: No data available Bioaccumulative No data available potential(BCF): Mobility in soil Log Pow: No data available Soil adsorption (Koc): No data available Henry's Law No data available constant(PaM3/mol):

# Section 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material

with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system.

Observe all federal, state and local regulations when disposing of the substance.

## Section 14. TRANSPORT INFORMATION

 Hazards Class:
 Does not correspond to the classification standard of the United Nations

 UN-No:
 Not listed

# Section 15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002

and revised on February 16,2011): Safe use and production, the storage of a

dangerous chemical, transport,

loading and unloading were prescribed.

5-Norbornene-2-carboxamide (mixture of

isomers)

# **SECTION 16 - ADDITIONAL INFORMATION**

N/A