

5-Norbornene-2-OL,mixture of endo and exo 13080-90-5 MSDS

Section 1 - Chemical ProductMSDS Name: 5-Norbornen-2-ol (mixture of endo and exo), 99%

Material Safety Data Sheet

Synonym:

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content
13080-90-5	5-norbornen-2-ol (mixture of endo and	99

Hazard Symbols: None Listed.

Risk Phrases: 10

SECTION 3 - HAZARDS IDENTIFICATIONEMERGENCY OVERVIEW Flammable. Potential Health Effects The toxicological properties of this material have not been investigated. Use appropriate procedures to prevent opportunities for direct contact with the skin or eyes and to prevent inhalation.

SECTION 4 - FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

SECTION 5 - FIRE FIGHTING MEASURES

General Information:

Water Reactive. Material will react with water and may release a flammable and/or toxic gas.

Extinguishing Media:

Do NOT use water directly on fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

SECTION 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Keep away from water. Flammables-area.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Exposure Limits CAS# 13080-90-5: Personal Protective Equipment

Eyes:

Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystals

Color: beige

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: @ 760.00mm Hg

Freezing/Melting Point: 104-106 C

Autoignition Temperature: Not available.

Flash Point: 50 deg C (122.00 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water:

Specific Gravity/Density:

Molecular Formula: C7H10O

Molecular Weight: 110.16

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, strong oxidants.

Incompatibilities with Other Materials:

Not available.

Hazardous Decomposition Products:

Irritating and toxic fumes and gases.

Hazardous Polymerization: Not available.

SECTION 11 - TOXICOLOGICAL INFORMATION RTECS#: CAS# 13080-90-5 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

5-norbornen-2-ol (mixture of endo and exo), 99% - Not listed by ACGIH, IARC, or NTP.

SECTION 12 - ECOLOGICAL INFORMATION

SECTION 13 - DISPOSAL CONSIDERATIONS Dispose of in a manner consistent with federal, state, and local regulations

SECTION 14 - TRANSPORT INFORMATION IATA

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

Hazard Class: 4.1

UN Number: 1325

Packing Group: II IMO

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

Hazard Class: 4.1

UN Number: 1325

Packing Group: II RID/ADR

Shipping Name: FLAMMABLE SOLID, ORGANIC, N.O.S.

Hazard Class: 4.1

UN Number: 1325

Packing group: II

SECTION 15 - REGULATORY INFORMATION European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

R 10 Flammable.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking. WGK (Water Danger/Protection) CAS#

13080-90-5: No information available. Canada None of the chemicals in this product are listed on the

DSL/NDSL list. CAS# 13080-90-5 is not listed on Canada's Ingredient Disclosure List. US FEDERAL TSCA CAS# 13080-90-5 is not listed on the TSCA inventory. It is for research and development use only.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 9/02/1997 Revision #2 Date: 3/18/2003 The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.