# Material Safety Data Sheet N-Benzyl-4-piperidone

ACC# 43270

# Section 1 - Chemical Product and Company Identification

MSDS Name: N-Benzyl-4-piperidone

Catalog Numbers: AC106130000, AC106131000, AC106132500, AC368710000 Synonyms: 1-(Phenylmethyl)-4-piperidinone; 1-Benzylpiperidin-4-one.

Company Identification:
Acros Organics N.V.

Acros Organics N.V. One Reagent Lane Fair Lawn, NJ 07410

For information in North America, call: 800-ACROS-01 For emergencies in the US, call CHEMTREC: 800-424-9300

# Section 2 - Composition, Information on Ingredients

CAS#	CAS# Chemical Name		EINECS/ELINCS
3612-20-2	N-Benzyl-4-piperidone	99	222-782-4

## Section 3 - Hazards Identification

#### **EMERGENCY OVERVIEW**

Appearance: clear, colorless to straw liquid. Flash Point: 71 deg C.

**Warning!** May cause allergic skin reaction. May cause eye, skin, and respiratory tract irritation. **Combustible liquid and vapor.** May

be harmful if swallowed. **Target Organs:** Skin.

### **Potential Health Effects**

Eye: May cause mild eye irritation.

Skin: May cause mild skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this

material.

Ingestion: May be harmful if swallowed.

**Inhalation:** May cause respiratory tract irritation.

Chronic: No information found.

## Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.

**Skin:** In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical aid if symptoms occur. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

# Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Combustible liquid and vapor.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: 71 deg C ( 159.80 deg F) Autoignition Temperature: Not available. Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 2; Instability: 0

### Section 6 - Accidental Release Measures

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

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Provide ventilation.

# Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Keep away from heat and flame. Avoid breathing vapor or mist. **Storage:** Keep away from sources of ignition. Keep refrigerated. (Store below 4°C/39°F.) Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

# Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
N-Benzyl-4-piperidone	none listed	none listed	none listed

OSHA Vacated PELs: N-Benzyl-4-piperidone: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear, colorless to straw

Odor: characteristic odor pH: 9.4 (saturated soln) Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate:Not available.

Viscosity: Not available.

Boiling Point: 114 - 116 deg C @ .40mbar Freezing/Melting Point:Not available.
Decomposition Temperature:> 120 deg C Solubility: 12 G/L WATER (20°C)
Specific Gravity/Density:1.060 g/ml Molecular Formula:C12H15NO Molecular Weight:189.26

# Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ignition sources, excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong acids, strong bases. **Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported.

## Section 11 - Toxicological Information

RTECS#:

CAS# 3612-20-2 unlisted.

LD50/LC50: Not available.

Oral, rat: LD50 > 640 mg/kg.

Carcinogenicity:

CAS# 3612-20-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Mutagenicity: No data available.
Neurotoxicity: No data available.

Other Studies:

## Section 12 - Ecological Information

No information available.

# Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste

regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not Regulated	Not Regulated
Hazard Class:		
UN Number:		
Packing Group:		

# Section 15 - Regulatory Information

## **US FEDERAL**

#### **TSCA**

CAS# 3612-20-2 is not listed on the TSCA inventory. It is for research and development use only.

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

## SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

#### **Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

CAS# 3612-20-2 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

# European/International Regulations

## **European Labeling in Accordance with EC Directives**

## **Hazard Symbols:**

XN

# Risk Phrases:

R 22 Harmful if swallowed.

R 43 May cause sensitization by skin contact.

## Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

# WGK (Water Danger/Protection)

CAS# 3612-20-2: No information available.

## Canada - DSL/NDSL

None of the chemicals in this product are listed on the DSL or NDSL list.

## Canada - WHMIS

This product has a WHMIS classification of B3, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

### **Canadian Ingredient Disclosure List**

# Section 16 - Additional Information

MSDS Creation Date: 6/05/1998 Revision #3 Date: 1/04/2005

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 event shall Fisher 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 Fisher has been advised of the possibility of such damages.