

1 - Product and Company Information

ProductName 7-BROMOHEPTANENITRILE, 90%

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Harmful if swallowed. May cause sensitization by skin contact.

3 - Composition/Information on Ingredients

| Product Name | CAS # | EC no | Annex I |
|--------------|-------|-------|---------|
|--------------|-------|-------|---------|

| | | | |
|-----------------------|------------|-----------|------|
| 7-BROMOHEPTANENITRILE | 20965-27-9 | 244-128-7 | None |
|-----------------------|------------|-----------|------|

Ingredient Name Percent CAS # EC no Annex I

ADIPODINITRILE < 10 111-69-3 203-896-3 None

Symbols: T

R-Phrases: 25-36/37/38

Toxic if swallowed. Irritating to eyes, respiratory system and skin.

Formula C7H12BrN

Molecular Weight 190.09 AMU

4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Avoid contact with eyes, skin, and clothing. Do not breathe vapor. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose

combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole

means of protection, use a full-face supplied air respirator.

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other

protective clothing.

9 - Physical and Chemical Properties

Appearance Physical State: Liquid

| Property | Value | At Temperature or Pressure |
|----------|-------|----------------------------|
|----------|-------|----------------------------|

| | | |
|----|-----|--|
| pH | N/A | |
|----|-----|--|

| | | |
|-------------|------------------|---------|
| BP/BP Range | 140.0 - 141.0 °C | 14 mmHg |
|-------------|------------------|---------|

| | | |
|-------------|-----|--|
| MP/MP Range | N/A | |
|-------------|-----|--|

| | | |
|-------------|--------|--------------------|
| Flash Point | 113 °C | Method: closed cup |
|-------------|--------|--------------------|

| | | |
|--------------|-----|--|
| Flammability | N/A | |
|--------------|-----|--|

| | | |
|-------------------|-----|--|
| Autoignition Temp | N/A | |
|-------------------|-----|--|

| | | |
|----------------------|-----|--|
| Oxidizing Properties | N/A | |
|----------------------|-----|--|

| | | |
|----------------------|-----|--|
| Explosive Properties | N/A | |
|----------------------|-----|--|

| | | |
|------------------|-----|--|
| Explosion Limits | N/A | |
|------------------|-----|--|

| | | |
|----------------|-----|--|
| Vapor Pressure | N/A | |
|----------------|-----|--|

| | | |
|------------|-------------|--|
| SG/Density | 1.265 g/cm3 | |
|------------|-------------|--|

| | | |
|-----------------------|-----|--|
| Partition Coefficient | N/A | |
|-----------------------|-----|--|

| | | |
|-----------|-----|--|
| Viscosity | N/A | |
|-----------|-----|--|

| | | |
|---------------|-----|--|
| Vapor Density | N/A | |
|---------------|-----|--|

| | | |
|-----------------------|-----|--|
| Saturated Vapor Conc. | N/A | |
|-----------------------|-----|--|

| | | |
|------------------|-----|--|
| Evaporation Rate | N/A | |
|------------------|-----|--|

| | | |
|--------------|-----|--|
| Bulk Density | N/A | |
|--------------|-----|--|

| | | |
|---------------------|-----|--|
| Decomposition Temp. | N/A | |
|---------------------|-----|--|

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|-----------------|-----|--|
| Solvent Content | N/A | |
|-----------------|-----|--|

| | | |
|---------------|-----|--|
| Water Content | N/A | |
|---------------|-----|--|

| | | |
|-----------------|-----|--|
| Surface Tension | N/A | |
|-----------------|-----|--|

| | | |
|--------------|-----|--|
| Conductivity | N/A | |
|--------------|-----|--|

| | | |
|--------------------|-----|--|
| Miscellaneous Data | N/A | |
|--------------------|-----|--|

| | | |
|------------|-----|--|
| Solubility | N/A | |
|------------|-----|--|

10 - Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides, Hydrogen bromide gas.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

SENSITIZATION

Skin: May cause allergic skin reaction.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

TARGET ORGAN INFORMATION

Eyes. Skin. Central nervous system. Cardiovascular system.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR Non-hazardous for road transport.

IMDG Non-hazardous for sea transport.

IATA Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful

R-Phrases: 22-43

Harmful if swallowed. May cause sensitization by skin contact.

R-Phrases: 26-36/37

In case of eye contact: Rinse immediately with plenty of water and seek medical advice. Wear immediately protective clothing and gloves.

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 3

Self-Classification

16 - Other Information

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent

any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.