



Section 1. Product and Company Identification

Product Name Benzyl Cyanide
CAS Number 140-29-4

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Section 2. Hazards Identification

Classification of the substance or mixture

Acute Tox. 3 H301 Toxic if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 1 H330 Fatal if inhaled.
Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

T +: Vary toxic
R26: Very toxic by inhalation.

T: Toxic
R24/25: Toxic in contact with skin and if swallowed.
Xi: Irritant
R36/37/38: Irritating to eyes, respiratory system and skin.

N: Dangerous for the environment
R50/53: Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

R32: Contact with acids liberates very toxic gas.

Information concerning particular hazards for human and environment: void

Labelling according to Regulation (EC) No 1272/2008: The substance is classified and labelled according to the CLP regulation.

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

- H301: Toxic if swallowed.
- H311: Toxic in contact with skin.
- H330: Fatal if inhaled.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

- P301+P310: If swallowed, immediately call a poison center or doctor/physician.
- P305+P351 +P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: immediately call a poison center or doctor/physician.
- P320: Specific treatment is urgent (see on this label).
- P361: Immediately remove/take off all contaminated clothing.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with local, regional, national, international regulations.

Additional information: EUH032 Contact with acids liberates very toxic gas.

Other Hazards

Results of PBT and vPvB assessment: PBT Not applicable.

Section 3. Composition / Information on Ingredients

Common Name Benzyl Cyanide
CAS Number 140-29-4

COMPONENT	CAS NUMBER	CONCENTRATION
Benzyl Cyanide	140-29-4	50 – 100%



Section 4. First Aid Measures

General Information: Remove breathing apparatus only after soiled clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

Inhalation: Supply fresh air or oxygen; call for doctor. In case of unconsciousness bring patient into stable side position for transport.

Skin contact: Instantly wash with water and soap and rinse thoroughly.

Eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Ingestion: Do not induce vomiting; instantly call for medical help.

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

Section 5. Firefighting Measures

Suitable extinguishing agents: Use firefighting measures that suit the environment.

Special hazards arising from the substance or mixture: Hydrogen cyanide (HCN) & Carbon monoxide (CO) may be released in event of fire

Advice for firefighters

Protective equipment: Put on breathing apparatus.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Ensure adequate ventilation. Put on breathing apparatus.

Environmental precautions: Inform respective authorities in case product reaches water or sewage system.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7. Handling and Storage

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.

Information about protection against explosions and fires: Keep breathing equipment ready.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers

Suitable material for containers and pipes: Soft steel.

Information about storage in one common storage facility: Store away from reducing agents. Do not store together with acids.

Further information about storage conditions: Keep container tightly sealed.

Section 8. Exposure Controls / Personal Protection

Additional information about design of technical systems: No further data; see item 7.

Control Parameters

Components with limit values that require monitoring at the workplace	
Benzyl cyanide (50-100%): CAS 140-29-4	
WEL	Long-term value: 5 mg/m ³ as CN; Sk

Additional information: The lists that were valid during the compilation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and food. Take off immediately all contaminated clothing. Wash hands during breaks and at the end of the work. Store protective clothing separately. Avoid contact with the eyes and skin.

Breathing equipment: In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. Filter A

Protection of hands: Solvent resistant gloves; protective gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Due to missing tests, no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed safety glasses.

Body protection: Protective work clothing

Section 9. Physical and Chemical Properties

General Information

Form: Liquid

Color: Colorless

Odor: Characteristic

Odor Threshold: Not determined

pH Value: 11 - 12

Melting point/Melting range: -24°C

Boiling point/Boiling range: 234°C

Flash point: 102°C

Inflammability (solid, gaseous): Not applicable

Ignition temperature: Not applicable

Decomposition temperature: Not determined

Self-inflammability: Not determined

Danger of explosion: Product is not explosive

Critical values for explosion

Lower: Not determined

Upper: Not determined

Vapor pressure at 20 °C: 0.07 hPa

Density at 20°C: 1.02 g/cm³

Relative density: Not determined

Vapor density: Not determined

Evaporation rate: Not determined

Solubility in/Miscibility with water: Not miscible or difficult to mix

Solubility in/Miscibility with Alcohols: Readily soluble

Partition coefficient (n-octanol /water): Not determined

Viscosity

Dynamic: Not determined

Kinematic: Not determined

Other information: No further relevant information available.

Section 10. Stability and Reactivity

Reactivity: N/A

Chemical stability

Thermal decomposition I conditions to be avoided: No decomposition if used according to specifications.



Possibility of hazardous reactions: No dangerous reactions known

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Hydrogen cyanide (prussic acid). Carbon monoxide and carbon dioxide

Section 11. Toxicological Information

Acute toxicity

LD/LC50 values that are relevant for classification		
Oral	LD50	270 mg/kg (rat)
Dermal	LD50	270 mg/kg (rabbit)
Inhalation	LD50/4 h	0.43 mg/l (rat)

Primary irritant effect

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritant effect.

Sensitization: No sensitizing effect known.

Section 12. Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility In soil: No further relevant information available.

Ecotoxicological effects

Remark: Very toxic for fish

Additional ecological information

General notes: Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

Results of PBT and vPvB assessment

PBT: No data available.

vPvB: No data available.

Other adverse effects: No further relevant information available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

ADR

UN Number: UN2470

UN proper shipping name: 2470 Phenylacetonitrile, liquid, environmentally hazardous

Transport Hazard Classes

Class: 6.1 Toxic Substances

Label: 6.1

IMDG, IATA

Class: 6.1 Toxic Substances

Label: 6.1

Packing Group ADR, IMDG, IATA: III

Environmental hazards: Environmentally hazardous substance, liquid

Marina pollutant: No

Special marking (ADR): Symbol (fish and tree)

Special precautions for user: Warning - Toxic substances.

Kemler Number: 60

EMS Number: 6.1-02

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not Applicable

Transport / Additional Information

ADR

Limited Quantities (LQ): 5L

Transport Category: 2

Tunnel restriction code: E

UN "Model Regulation": UN2470, phenylacetonitrile, liquid, environmentally hazardous, 6.1, III

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Technical Instructions (air)

Class: I

Share in %: 100.0

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



DEA Listing: This product is a DEA List 1 Chemical.

DEA Chemical Code: 8735

Section 16. Other Information

Disclaimer: 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.

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