

Section 1. Product and Company Identification

Product Name Benzaldehyde
CAS Number 100-52-7

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral Category 4
Acute toxicity - Dermal Category 4
Acute toxicity - Inhalation (Vapors) Category 4
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity (single exposure) Category 3
Flammable liquids Category 4

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes serious eye irritation
May cause respiratory irritation
Combustible liquid



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep cool

Response

Specific measures (see ? on this label)
In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Section 3. Composition / Information on Ingredients

Common Name Benzaldehyde
CAS Number 100-52-7

COMPONENT	CAS NUMBER	CONCENTRATION
Benzaldehyde	100-52-7	100%

Section 4. First Aid Measures

First-aid measures for different exposure routes

General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary. Remove and wash contaminated clothing before re-use. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required.

Inhalation: Move to fresh air. Consult a physician. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/ or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.



Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

Protection of first-aiders: Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically.

Section 5. Firefighting Measures

Suitable extinguishing media: Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol-resistant foam.

Flammable Properties: Combustible liquid

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical: Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion Data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: Yes.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Pick up and transfer to properly labeled containers. Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.



Section 7. Handling and Storage

Precautions for safe handling

Advice on safe handling: Wear personal protective equipment. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks, and open flame. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers. Keep away from heat.

Incompatible products: None known based on information supplied.

Section 8. Exposure Controls / Personal Protection

Control parameters

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Exposure controls

Engineering Measures: Showers; Eyewash stations; Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection: Tightly fitting safety goggles. Face-shield.

Skin and body protection: Chemical resistant apron.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures: When using, do not eat, drink, or smoke. Provide regular cleaning of equipment, work area and clothing.

Section 9. Physical and Chemical Properties

Physical State (20°C): Liquid

Appearance: Clear, Colorless

Odor: Characteristic

Odor Threshold: No information available

pH: No information available

Melting point/range: -8°F / -22°C

Freezing Point: No information available



Initial Boiling Point: No information available
Boiling point/boiling range: 354°F / 179°C
Flash point: 147°F / 63°C
Evaporation Rate: No information available
Flammable Properties: Combustible liquid
Flammability Limits in Air: No information available
Explosive properties: No information available
Oxidizing Properties: No information available
Vapor Pressure (20°C): No information available
Vapor Density: No information available
Specific Gravity: 1.0440
Water Solubility: Soluble in Water
Solubility: No information available
Partition coefficient: No information available
Autoignition temperature: No information available
Decomposition Temperature: No information available
Viscosity, dynamic: No information available
Molecular Weight: 106.13
VOC Content: No information available

Section 10. Stability and Reactivity

Reactivity: Exothermic reaction
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: None under normal processing.
Conditions to avoid: Heat, flames and sparks.
Incompatible materials: None known based on information supplied.
Hazardous decomposition products: None known based on information supplied.

Section 11. Toxicological Information

Information on likely routes of exposure

Product Information: Product does not present an acute toxicity hazard based on known information

Inhalation: There is no data available for this product.

Eye contact: There is no data available for this product.

Skin contact: There is no data available for this product.

Ingestion: There is no data available for this product.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzaldehyde (CAS# 100-52-7)	1430 mg/kg	1250 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.



Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: No information available.

Mutagenic effects: No information available.

Carcinogenicity: No information available.

Reproductive Toxicity: No information available.

Specific target organ systemic toxicity (single exposure): No information available.

Specific target organ systemic toxicity (repeated exposure): No information available.

Chronic toxicity: Avoid repeated exposure.

Aspiration hazard: No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral): 1430 mg/kg

ATEmix (dermal): 1250 mg/kg

ATEmix (inhalation-vapor): 11 mg/l

LD50 Oral (mg/kg): 1430 mg/kg

LD50 Dermal (mg/kg): 1250 mg/kg

Section 12. Ecological Information

Ecotoxicity: 0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Benzaldehyde (CAS# 100-52-7)	-	LC50: 6.8 - 8.53 mg/L 96h flow-through (Pimephales promelas) LC50: 7.5 mg/L 96h static (Lepomis macrochirus) LC50: 10.6 - 11.8 mg/L 96h flow-through (Oncorhynchus mykiss) LC50: 12.69 mg/L 96h static (Oncorhynchus mykiss) LC50: 0.8 - 1.44 mg/L 96h flow-through (Lepomis macrochirus)	EC50: 50 mg/L 24h (Daphnia magna)

Persistence and degradability: No information available.

Bioaccumulation: No information available.



Chemical name	log Pow
Benzaldehyde (CAS# 100-52-7)	1.48

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

DOT - BULK PACKAGING

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packing Group: III

Reportable Quantity (RQ): Please Refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities

DOT - NON BULK PACKAGING

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packing Group: III

Reportable Quantity (RQ): Please Refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities

IMDG/IMO

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packaging Group: III

Reportable Quantity (RQ): Please Refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities

MEX (SCT)

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packaging Group: III

Reportable Quantity (RQ): Please Refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities



ICAO/IATA

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packing Group: III

Reportable Quantity (RQ): Please Refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities

TDG

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packaging Group: III

Reportable Quantity (RQ): Please Refer to Appendix A to 49CFR 172.101 - List of Hazardous Substances and Reportable Quantities

RID

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packaging Group: III

ADR/RID

UN Number: 1990

Proper shipping name: Benzaldehyde

Hazard Classification: 9

Packing Group: III

Section 15. Regulatory Information

International Inventories

TSCA: Complies

DSL/NDSL: Complies

EINECS/ELINCS: Complies

ENCS: Complies

IECSC: Complies

KECL: Complies

PICCS: Complies

AICS: Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of



Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: no

Fire Hazard: Yes

Sudden Release of Pressure Hazard: no

Reactive Hazard: no

Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Benzaldehyde (CAS# 100-52-7)	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number: Not applicable

HMIS Rating

Health: 1

Flammability: 2

Reactivity: 0



NFPA Rating

Health: 1

Flammability: 2

Reactivity: 0

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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