

SAFETY DATA SHEET

Issue date : March 01, 2024 Revision date : July 01, 2024
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1. Identification of the substance and of the supplier

GHS product identifier

Product name: BENZALDEHYDE NAT

Other means of identification

CAS Number 102-52-7

EC Number 202-860-4

FEMA Number 2127

Recommended use of the chemical and restrictions on use

Recommended use Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

Restrictions on use For Manufacturing Use Only

Supplier's details

Company name

Asia Specialty Ingredients Joint Stock Company

Address

Chi Long Village, Ngoc Long Commune, Yen My District, Hung Yen Province, Vietnam

Telephone

+84 2213 580 989

Website

www.asi-vn.com

Email


info@asi-vn.com

Emergency phone number

+84 986 385 445

2. Hazards identification

GHS classification of the substance

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity	Category 4
	Eye irritation	Category 2A
	Specific target organ toxicity - Single exposure	Category 2 Respiratory system
Environmental hazards	Hazardous to the aquatic environmental	Category 3
GHS label elements	Pictogram	

Signal word

Warning

Hazard statements

H302 Harmful if swallowed

H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statements

Prevention

P261 Avoid breathing fumes
P280 Wear protective gloves/eye protection/face protection

Response

P330 Rinse mouth

Storage

P235 Keep cool
P405 Store locked up

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Other hazards which do not result in classification

After prolonged contact with highly porous materials, this product may spontaneously combust

3. Composition/information on ingredients

Chemical identity

Chemical name Benzaldehyde
Common name, synonym, etc. Benzoic aldehyde, Benzenecarboxaldehyde, Benzene carbinal, Phenylmethanal

Formula C_7H_6O

Molecular weight 106.124 g/mol

CAS number and other unique identifiers

CAS Number 100-52-7

EC Number 202-860-4

FEMA Number 2127

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance No data available

4. First-aid measures

Description of necessary measures

Inhalation

If breathing is difficult, move to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Most important symptoms/effects	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed, if necessary	No further relevant information available

5. Fire-fighting measures

Suitable and unsuitable extinguishing media	
Suitable extinguishing media	Water spray, fog, CO2, dry chemicals, or alcohol resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and precautions for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural fire fighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected person away
Environmental precautions	Do not allow to enter sewers/surface or ground water.
Methods and materials for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation

7. Handling and storage

Precautions for safe handling	Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling
Conditions for safe storage, including any compatibilities	Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limits.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use explosion-proof ventilation equipment to stay below exposure limits.
Individual protection measures	
Eye/face protection	Avoid contact with eyes.
Hand skin protection	Chemical resistant gloves.
Other skin protection	Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapour cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Physical state	Liquid
Colour	Mobile, colourless
Odour	Characteristics
Melting point/freezing point	-26°C
Boiling point	178°C
Flammability	Combustible liquids
Lower and upper explosion limit/flamability limit	No data available
Flash point	62.8°C, Closed cup

Auto-ignition temperature	191.67°C
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Insoluble in water
Partition coefficient: n-octanol/water (log value)	1.48
Vapour pressure	1 mm Hg at 25 °C
Density and/or relative density	1.044 to 1.056 @ 20 °C
Relative vapour density	3.66
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products.	No hazardous decomposition products if stored and handled as indicated.

11. Toxicological information

Information of the likely routes of exposure	
Inhalation	May be harmful if inhaled
Skin Contact	Causes skin irritation
Eye Contact	May be harmful if absorbed through the skin. Readily absorbed by skin.
Ingestion	Causes eye irritation
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
Delayed and immediate effects and also chronic effects from short- and long-term exposure	No data available
Numerical measures of toxicity	No data available

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects
Persistence and degradability	Readily biodegradability >90 % BSB/CSB.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.

Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.
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13. Diposal considerations

Disposal instructions	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemicals or used containers. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	Not established.
Waste from residues/ unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is empty

14. Transport information

UN number	1990
UN proper shipping name	BENZALDEHYDE
Transport hazard class	9
Packing group, if applicable	III
Environmental hazards	No data available
Transport in bulk according to IMO instruments	No data available
Special precautions	No data available

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance	This safety datasheet complies with the requirement of Regulation (EC) No. 1997/2006
Other regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Chemical safety assessment	For this product a chemical safety assessment was not carried out

16. Other information

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