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SAFETY DATA SHEET

BENZALDEHYDE NAT

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Version #5

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1. Identification of the substance/preparation and of the company/undertaking

Product Name	Benzaldehyde NAT
CAS Number	100-52-7
EC Number	202-860-4
FEMA Number	2127
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.
Recommended restrictions	For Manufacturing Use Only.
Manufacturer Information	
Company name	TECH-VINA.,JSC
Address	Binh Dan Village, Tan Dan Commune, Khoai Chau District, Hung Yen Province, Vietnam
Telephone	+84 866 115 486
Website	www.techvina.vn
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2. Hazards identification

Physical hazards	Flammable Liquid	Category 4
Health hazards	Acute toxicity, dermal	Category 4
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single	Category 2
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 3

Label elements



GHS07





Signal word	Warning
Hazard Statements	
	H227 Combustible liquid.
	H302 Harmful if swallowed.
Precautionary statements	
Prevention	
	P210 Keep away from heat/sparks/open flames/hot surface, no smoking.
	P280 Wear protective gloves/eye protection/face protection.
Response	
	P301+P312 IF SWALLOWED: Call a poison center/doctor if you feel unwell.
	P330 Rinse mouth.
Storage	
	P403+P235 Store in a well-ventilated place, keep cool.
Disposal	
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	After prolonged contact with highly porous materials, this product may spontaneously combust.
Supplemental information	100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Chemical name	Benzaldehyde
Common name & synonyms	Benzoic Aldehyde
Chemical Characterization	Substances
CAS Number	100-52-7
EC Number	202-860-4
FEMA Number	2127
Formula	C ₇ H ₆ O
Purity	Min 98.0%
Molar mass	106.124 g/mol





4. First-aid measures

Inhalation	If breathing is difficult, remove 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, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	No further relevant information available.
General information	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, fog, CO ₂ , 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 firefighters	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.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other





involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods

Use water spray to cool unopened containers.

General fire hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Wear protective equipment. Keep unprotected person away.

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.

Environmental precautions

Do not allow to enter sewers/surface or ground water.

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 incompatibilities

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

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, such as personal protective equipment

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 vapor 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

Appearance	Refer to Spec Sheet
Physical state	Liquid
Form	Liquid
Color	Colorless to light yellow
Odor	Characteristic
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-26 °C
Initial boiling point and boiling range	178 °C
Flash point	62.8 °C Closed cup
Refractive Index	1.544 – 1.547@20 °C
Flammability (solid, gas)	Not applicable.
Vapor pressure	1 mm Hg at 25 °C
Vapor density	3.66
Solubility (water)	Insoluble
Auto-ignition temperature	191.67 °C
Decomposition temperature	Not available.
Specific gravity	1.044 – 1.056@ 20 °C

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 on the likely routes of exposure:

Inhalation	May be harmful if inhaled
Skin Contact	Causes skin irritation
Skin Absorption	May be harmful if absorbed through the skin. Readily absorbed by skin.
Eye Contact	Causes eye irritation
Ingestion	Harmful if swallowed

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. 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 Consult physician, specialist and/or Chemtrec.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	Readily biodegradability > 90 % BSB/CSB.
Bioaccumulative potential	Partition coefficient n-octanol / water (log Kow): 1.48
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.

13. Disposal 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 chemical or used container. 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

DOT (US)

UN Number	1990
Proper Shipping Name	BENZALDEHYDE, natural
Class	9
Packing Group	III

IMDG

UN Number	1990
Proper Shipping Name	BENZALDEHYDE, natural
Class	9
Packing Group	III

IATA

UN Number	1990
Proper Shipping Name	BENZALDEHYDE, natural
Class	9
Packing Group	III

ADR

UN Number	1990
Proper Shipping Name	BENZALDEHYDE, natural
Class	9
Packing Group	III

Transport hazard class(es)





DOT, IMDG, IATA, ADR



Class 9: Miscellaneous

Label: 9

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export
Notification (40 CFR 707,
Subpt. D)

Not regulated.

CERCLA Hazardous
Substance List (40 CFR
302.4)

Not listed.

SARA 304 Emergency
release notification

Not regulated.

OSHA Specifically
Regulated Substances (29
CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely
hazardous substance

Not listed.

SARA 311/312 Hazardous
chemical

Yes

Classified hazard categories:

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section
112 Hazardous Air
Pollutants (HAPs) List

Not regulated.





Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Controlled substance

16. Other information

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet is intended to meet the specific requirements of GHS and should be used accordingly. While the information has been obtained from sources believed to be accurate and reliable, no warranty, expressed or implied, can be made with regard to its completeness, correctness or accuracy. Any users or handlers of this product who are not under the direct control of Tech-vina JSC are responsible for evaluating this information in light of their particular situation and are responsible for all losses, damages or expenses that result while this material is under their control. It is also the responsibility of the users and handlers to observe any and all laws and regulations (Global, Federal, State and Local) concerning the transportation, use, handling, storage and disposal of this product.

