

# **Safety Data Sheet**

## 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier						
Product Name		Benzaldehyd				
Biological Definition		-				
INCI Name		Benzaldehyde				
Synonyms & Trade Names		es	Benzoic Aldehyde			
CAS-No 100-52-7		100-52-7	EC No.	202-860-4	EINECS No.	202-860-4
1.2 R	Relative identified uses of the substance or mixture and uses advised against					
Ν	No additional data available.					
1.3 C	Details of the supplier of the safety data sheet					
Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1						
1.4 E	Emergency Tel.	No	604-540-8	3700 (Monday-Fric	day 8:30 am-4:30 p	 m)

#### 02. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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## Classification (EC 1272/2008)

Acute toxicity - Oral Category 4 - (H302)

Acute toxicity - Dermal Category 4 - (H312)

Acute toxicity - Inhalation (Vapours) Category 4 - (H332)

Serious eye damage/eye irritation Category 2 - (H319)

Specific target organ toxicity (single exposure) Category 3 - (H335)

#### 2.2 Label Elements

Label in accordance with (EC) No 1272/2008

GHS07



Signal Word	Warning
Contains	Benzaldehyde

## **Hazard Statements**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

## **Precautionary Statements**

P280 - Wear eye protection/ face protection.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 - Use only outdoors or in a well-ventilated area.

P285 - In case of inadequate ventilation wear respiratory protection.

P309 + P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

#### **Supplementary Precautionary Statements**

None.

#### 2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	Toxic to aquatic life. Combustible liquid.
Adverse effects on human health	No additional data available.

#### 03. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

100% Benzaldehyde CAS-No.: 100-52-7 EC No.: 202-860-4

Classification (EC 1272/2008) Acute Tox. 4 H302, Aquatic Acute 2 H401, Eye Irrit. 1 H319, Skin Irrit. 3 H316, Flam. Liq. 4 H227 (EFFA), Acute Tox. 4 H332(EFFA)

### **04. FIRST AID MEASURES**

4.1 Description of first aid measures			
Inhalation	nhalation Remove from exposure site to fresh air and keep at rest. If breathing is difficult – give oxygen.		
	Obtain medical advice.		
Ingestion	Rinse mouth with water and obtain medical advice. Do not induce vomiting.		
Skin Contact	Remove contaminated clothes. Wash thoroughly with water (and soap). Wash contaminated		
	clothing before re-use. Contact physician if symptoms persist.		
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes			
	Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:		
	Get medical advice/attention.		
4.2 Most imp	4.2 Most important symptoms and effects, both acute and delayed		
No additional data available.			
4.3 Indication of any immediate medical attention and special treatment needed			
Treat symp	Treat symptomatically.		

# **05. FIRE-FIGHTING MEASURES**

## 5.1 Extinguishing Media

**Suitable extinguishing media:** Carbon Dioxide, dry chemical, foam.

#### 5.2 Special hazards arising from the product

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

Hazardous combustion products Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Use personal protective equipment as required.

## **06. ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation and contact with skin and eyes. Use personal protective equipment as described in section 8. Ensure adequate ventilation, especially in confined spaces.

#### 6.2 Environmental Precautions

Keep away from drains, surface and ground water and soil.

## 6.3 Methods and material for containment and cleaning up.

Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

#### 6.4 Reference to other sections

See section 12 – Ecological information.

#### 07. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practises. Ensure good ventilation, especialy in confined spaces.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

## 7.3 Specific end use(s)

No additional data available.

#### **08. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

BENZALDEHYDE Cas: 100-52-7

Finland: TWA: 1 ppm, TWA: 4.4 mg/m3, STEL: 4 ppm, STEL: 17.4 mg/m3,

Ceiling: 4 ppm, Ceiling: 17.4 mg/m3

Poland: STEL: 40 mg/m3, TWA: 10 mg/m3

#### 8.2 Exposure controls

#### **Protective Equipment**







Process Conditions	Provide eyewash station.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas.	
Respiratory Equipment	Avoid inhalation of vapours.	
Hand Protection	Avoid skin contact. Use chemically resistant gloves.	
Eye Protection	Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact	
	might occur.	
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.	
Hygiene Measures	Ensure good industrial safety and hygiene practises are followed at all times.	
Personal Protection	Wear suitable protective clothing to avoid contact with eyes and skin. Avoid inhalation	

	of vapours.
Skin Protection	Wear apron or protective clothing to avoid skin contact.
Environmental Exposure	Avoid discharging into drainage water. Only eliminate by authorised companies.
Controls	

## **09. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties		
Appearance	Liquid.	
Colour	Colourless to pale yellow.	
Odour	Characteristic.	
Relative Density	1.020 – 1.060 @ 20°C	
Flash Point (°C)	64	
Refractive Index	1.540 - 1.565 @ 20°C	
Melting Point (°C)	-19.5	
Boiling Point (°C)	230.0.	
Vapour Pressure	0.06	
Solubility in Water @20°C	No additional data available.	
Auto-ignition	No additional data available.	
temperature (°C)		
9.2 Other information		
No additional data available.		

**10. STABILITY AND REACTIVITY** 

## 10.1 Reactivity

No additional data available.

## 10.2 Chemical stability

This product is stable at room temperature under normal working conditions outlined in this safety sheet.

## 10.3 Possible hazardous reactions

No hazardous reactions known under normal processing conditions.

#### 10.4 Conditions to Avoid

Keep away from extreme heat, direct sunlight, sparks and open flame.

## 10.5 Incompatible materials

No additional data available.

## 10.6 Hazardous Decomposition Products

None under normal use conditions.

## 11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects		
Acute Toxicity	Product does not present an acute toxicity hazard based on known or supplied information.	
	The following values are calculated based on chapter 3.1 of the GHS	
	document	
	ATEmix (oral) 1,292.00	
	ATEmix (dermal) 1,250.00	
	ATEmix (inhalation-vapor) 11.00	
	Unknown acute toxicity	
	0% of the mixture consists of ingredient(s) of unknown toxicity.	

Skin corrosion / irritation	No additional data available.
Serious eye damage / irritation	No additional data available.
Respiratory or skin sensitisation	No additional data available.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No additional data available.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

## **12. ECOLOGICAL INFORMATION**

## 12.1 Toxicity

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment Benzalehyde Cas: 100-52-7

**Fish:** 10.6 - 11.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 12.69: 96 h Oncorhynchus mykiss mg/L LC50 static 0.8 - 1.44: 96 h Lepomis macrochirus mg/L LC50 flow-through 7.5: 96 h Lepomis macrochirus mg/L LC50 static 6.8 -8.53: 96 h Pimephales promelas mg/L LC50 flow-through

Crustacea: 50: 24 h Daphnia magna mg/L EC50

#### 12.2 Persistence & degradability

No additional data available.

## 12.3 Bioaccumulation Potential

Partition co-efficient: 1.48.

#### 12.4 Mobility in soil

No additional data available.

## 12.5 Results of PBT and vPvB Assessment

No additional data available.

#### 12.6 Other adverse effects

No additional data available.

#### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Product:** Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Improper disposal or reuse of this container may be dangerous and illegal.

#### 14. TRANSPORT INFORMATION

14.1	UN number	
	UN No. Road	1990
	UN No. SEA	1990
	UN No. AIR	1990

## 14.2 UN proper shipping name

BENZALDEHYDE.

## 14.3 Transport hazard class(es)

ADR/RID/ADN Class: 9: Miscellaneous dangerous substances and articles. IMDG Class: 9: Miscellaneous dangerous substances and articles. ICAO Class/Division: 9: Miscellaneous dangerous substances and articles.

**Transport Labels** 



#### 14.4 Packing group

ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III

#### 14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant.



## 14.6 Special precautions for user

No additional data available.

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

No additional data available.

#### 15. REGULATORY INFORMATION

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

**Statutory Instruments** 

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

**EU** Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

# 15.2 Chemical safety assessment

No additional information available.

## **16. OTHER INFORMATION**

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Hazard and/or Precautionary	H227 - Combustible liquid
Statements in Full	H302 - Harmful if swallowed
	H316 - Causes mild skin irritation
	H319 - Causes serious eye irritation

	H332 - Harmful if inhaled H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness H401 - Toxic to aquatic life
Other Information	-
Revision Date	December 10, 2015
Reason for revision	New SDS
Rev No/Repl, SDS Generated	01

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