

Section 1. Product and Company Information

GHS Product Name: Benzyl Benzoate

Product Code: PHE-33-10

CAS: [120-51-4]

Molecular Formula: C₁₄H₁₂O₂

Ascabiol; Benzoic acid benzyl ester; Novoscabin; Scabitox;

Company: MarkHerb

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Section 2. Hazards Identification

2.1 GHS classification

PHYSICAL HAZARDS Not classified

HEALTH HAZARDS

Acute toxicity – Oral (Category 4), H302

ENVIRONMENTAL HAZARDS

Acute aquatic toxicity (Category 1), H400

Long-term (chronic) aquatic hazard (Category 4), H411

2.2 GHS label elements, including precautionary statements

Pictograms or hazard symbols



Signal word Warning

Hazard statements

H302 Harmful if swallowed

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P301 + 312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell
P330	Rinse mouth
P391	Collect spillage
P501	Dispose of contents/ container to an approved waste disposal plant.

Section 3. Information on Basic Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Melting Point:	17-20°C
Boiling Point:	323-324°C
Flash Pt:	148°C - closed cup
Evaporation Rate:	< 1 (Butyl Acetate = 1)
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data
Vapor Pressure (vs. Air or mm Hg):	0.0±0.7 mmHg at 25°C
Vapor Density (vs. Air = 1):	7.31
Specific Gravity (Water = 1):	1.118 g/cm ³ at 20°C
Solubility in Water:	0.0153 g/L at 20°C (Slightly soluble); insoluble in cold water
Solubility Notes:	Methanol; n-octanol; acetone
Autoignition Pt:	480°C (896°F)
Percent Volatile:	No data
Partition coefficient:	log Pow: 3.97 at 25°C
pH:	No data

Section 4. First aid measures

Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see **section 2.2**).

Indication of any immediate medical attention and special treatment needed

No data available

Section 5. Fire Fighting Measures

Suitable extinguishing

Media: Dry chemical, foam, water spray, carbon dioxide.

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective:

equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

General Information:

Use proper personal protective equipment as indicated in **Section 8**.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

Section 7. Handling and Storage

Precautions for safe handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

Storage:

Store in a well closed container. Protected from air and light, refrigerate or freeze (2-8°C)

Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

Section 8. Exposure Controls / Personal Protection

Engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Control parameters: Not set up

Personal protective equipment:

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Section 9. Stability and Reactivity

Reactivity

Stable under recommended transport or storage conditions.

Chemical Stability

Stable under normal temperatures and pressures.

Conditions to Avoid

Incompatible materials, strong oxidants, heat.

Incompatibilities with Other Materials

Strong oxidising/reducing agents, strong acids/alkalis.

Hazardous Decomposition Products

Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization

Has not been reported.

Section 10. Toxicological Information

Acute Toxicity:	LD ₅₀ Oral - Rat - 1900 mg/kg LD ₅₀ Oral - Mouse - 1400 mg/kg LD ₅₀ Oral - Rabbit - 1680 mg/kg LD ₅₀ Dermal - Rabbit - 4000 mg/kg LC ₅₀ Inhalation - >5.2 mg/l
Skin corrosion/irritation:	Skin - Rabbit Result: No skin irritation - 4 h
Serious eye damage/irritation:	Eyes - Rabbit Result: No eye Irritation
Germ cell mutagenicity:	Test type: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Application Route: Oral Result: Negative
Carcinogenicity:	IARC = No data NTP = No data
Reproductive toxicity:	No data

Section 11. Ecological Information

Toxicity:

Toxicity to fish	: semi static test LC ₅₀ - Danio rerio (zebra fish) - 2.32 mg/l - 96 h
Toxicity to daphnia	: EC ₅₀ - Daphnia magna - 2 mg/L - 24 h EC ₅₀ - Daphnia magna - 0.05 mg/L - 48 h
Toxicity to algae	: static test ErC ₅₀ - Pseudokirchneriella subcapitata (green algae) - 0.475 mg/l - 72 h
Toxicity to bacteria	: static test EC ₅₀ - activated sludge - >10000 mg/l - 3 h

Persistence and degradability:

Biodegradability	aerobic - Exposure time 28 h Result: 94% - Readily biodegradable
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Bioaccumulative potential: No data

Mobility in soil: No data

Results of PBT & vPvB assessment: No data

Other adverse effects: May be harmful to the aquatic environment.

Section 12. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 13. Transport Information

Hazards Class

Does not meet the criteria for classification as hazardous for transport.

UN number

ADR/RID: 3082

IMDG: 3082

IATA: 3082

UN proper shipping name

ADR/RID

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate)

IATA

Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate)

Transport hazard class(es)

ADR/RID: 9

IMDG: 9

IATA: 9

Section 14. Regulatory Information

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

no data

Chemical Safety Assessment

no data

Section 15. Additional Information

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

-----End of safety data sheet-----