



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
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Safety Data Sheet (MSDS)

Issued Date: February 15, 2026 | **Revision:** 1.0 | **Language:** English **Product:** Butylphenyl Methylpropional (BMHCA, Lilial) | **CAS:** 80-54-6 | **EC:** 201-289-8

1. Identification

- **Product Use:** Fragrance raw material (industrial/cosmetic).
- **Supplier:** NEWAY SINOPHC TECH. LIMITED
- **Emergency Phone:** +86-021-50350029.

2. Hazards Identification

- **GHS Classification (EU CLP):** Skin Sens. 1 (H317), Eye Irrit. 2 (H319), Aquatic Chronic 3 (H412).
- **GHS Labels:** Warning (W); Pictograms: Xi (Irritant), Aquatic Hazard.

• Hazard Statements:

- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H412: Harmful to aquatic life with long-lasting effects.

• Precautionary Statements:

- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P280: Wear protective gloves/eye protection/face protection.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

- **Active Ingredient:** Butylphenyl Methylpropional (100%, CAS 80-54-6).
- **Impurities:** ≤ 1.5% (isomers, water, trace aldehydes).

4. First-Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, give oxygen. Call a physician.
- **Skin Contact:** Remove contaminated clothing. Wash skin with soap and water for 15 minutes. If rash/irritation develops, seek medical help.
- **Eye Contact:** Rinse eyes with running water for 15 minutes (remove contact lenses if possible). Call a physician immediately.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control center.

5. Fire-Fighting Measures

- **Flash Point:** ≥ 100°C (Closed Cup) | **Autoignition Temp.:** ~380°C.
- **Extinguishing Media:** Dry chemical, CO₂, foam, water spray (cool containers).
- **Fire Hazards:** Combustible liquid. Vapors may form explosive mixtures with air at high temperatures.
- **Protective Equipment:** Wear self-contained breathing apparatus (SCBA) and full fire-fighting gear.

6. Accidental Release Measures

- **Personal Precautions:** Wear PPE (gloves, goggles, respirator). Ventilate area.
- **Spill Handling:** Absorb with inert material (vermiculite, sand). Transfer to labeled containers for disposal. Do not flush to sewer.
- **Environmental Precautions:** Prevent entry into drains, sewers, rivers, or soil.

7. Handling and Storage

- **Handling:** Use in well-ventilated areas. Avoid skin/eye contact. Do not eat/drink/smoke while handling.
- **Storage:** 5–30°C, tightly sealed, away from light/heat. Store separately from strong oxidizers/acids.
- **Shelf Life:** 24 months (unopened, proper storage).

8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits:** No established OEL for BMHCA. Use fragrance industry guidelines (≤ 5 ppm).
- **Engineering Controls:** Local exhaust ventilation (LEV) to keep vapors below exposure limits.
- **Personal Protection:**
 - Gloves: Nitrile/butyl rubber (replace after 8 hours of use).
 - Eyes: Chemical splash goggles.
 - Skin: Protective clothing (lab coat, coveralls).
 - Respiratory: Organic vapor cartridge respirator (if vapors exceed limits).

9. Physical and Chemical Properties

- **Appearance:** Colorless liquid | **Odor:** Floral (lily-of-the-valley).
- **Molecular Formula:** C₁₄H₂₀ O | **MW:** 204.31.
- **Relative Density (20/20°C):** 0.940–0.946 | **Refractive Index (20°C):** 1.492–1.496.
- **Boiling Point:** ~260°C | **Flash Point:** $\geq 100^\circ\text{C}$ (Closed Cup).
- **Solubility:** Soluble in ethanol/ether; insoluble in water.
- **Vapor Pressure (20°C):** ≤ 0.01 mmHg.

10. Stability and Reactivity

- **Stability:** Stable under normal storage/handling conditions (avoid strong oxidizers, acids, bases).
- **Hazardous Reactions:** May react with strong oxidizers (peroxides, nitric acid) to produce toxic fumes.
- **Hazardous Decomposition:** Carbon monoxide (CO), carbon dioxide (CO₂), and aromatic compounds (if burned).

11. Toxicological Information

- **Acute Toxicity:** Oral LD₅₀ (rat) > 5,000 mg/kg; Dermal LD₅₀ (rabbit) > 2,000 mg/kg; Inhalation LC₅₀ (rat) > 5,000 mg/m³ (4h).
- **Skin Irritation:** Mild (rabbit, 24h).
- **Eye Irritation:** Moderate (rabbit, 24h).
- **Skin Sensitization:** Positive (human repeat insult patch test) – May cause allergic reactions.
- **Chronic Toxicity:** No evidence of carcinogenicity/mutagenicity/reproductive toxicity (per SCCS Opinion).

12. Ecological Information

- **Aquatic Toxicity:** LC₅₀ (fish, 96h) = 0.5–1.0 mg/L; EC₅₀ (Daphnia, 48h) = 0.2–0.5 mg/L.
- **Persistence:** Biodegradable ($\geq 60\%$ in 28 days, OECD 301).
- **Bioaccumulation:** Low (log K_{oc} = 3.5; BCF < 100).
- **Environmental Hazard:** Harmful to aquatic life with long-lasting effects (H412).

13. Disposal Considerations

- **Waste Disposal:** Dispose of unused product/waste in accordance with local/regional regulations. Incinerate with an afterburner and scrubber (to reduce VOCs).
- **Container Disposal:** Rinse containers thoroughly. Recycle or dispose of as hazardous waste (if contaminated).

14. Transport Information

- **UN Number:** Not regulated (non-hazardous for transport).



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- **UN Proper Shipping Name:** Not applicable.
- **Transport Class:** Not applicable.
- **Packing Group:** Not applicable.
- **Marine Pollutant:** No.

15. Regulatory Information

- **REACH:** Registered (EC No. 201-289-8). Annex XVII: Restrictions apply to cosmetic use (refer to SCCS/1591/17).
- **CosIng:** Listed (INCI: Butylphenyl Methylpropional).
- **TSCA:** Listed (CAS 80-54-6).
- **Nordic Swan:** Restricted in ecolabeled cosmetics.

16. Other Information

- **Revision Date:** February 15, 2026.
- **Disclaimer:** This MSDS is based on current scientific/technical data. It is intended for industrial/commercial use only. Users must comply with local regulations and conduct their own risk assessments for specific applications.



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