VERISCENTS

SAFETY DATA SHEET

CALONE | CAS 28940-11-6

Product form: crystalline powder | Customer-facing technical document

1. Identification

Product: Calone; CAS: 28940-11-6; EC: 249-320-4. Chemical name: 7-Methyl-2H-1,5-benzodioxepin-3(4H)-one. Intended use: fragrance ingredient for manufacturing; not for direct personal application.
Veriscents | 30 N Gould Street | Sheridan, WY 82801 | 877.863.7700 | Regulatory Contact
Medical exposure emergencies (24 h): Poison Control 800-222-1222. Transport incidents: HazmatLine +1 (813) 742-5152; support@hazmatline.com.

2. Hazards identification

GHS classification (source US HCS 2012): Skin Corrosion Category 1B (H314); Serious Eye Damage Category 1 (H318); Specific Target Organ Toxicity, Single Exposure Category 3 (narcotic effects; H336).
Signal word: DANGER. H314: Causes severe skin burns and eye damage. H336: May cause drowsiness or dizziness.
Avoid breathing dust. Wear protective gloves, protective clothing, and eye/face protection. IF SWALLOWED: Rinse mouth; do not induce vomiting. IF ON SKIN: Remove contaminated clothing and rinse with water. IF IN EYES: Rinse cautiously with water and seek immediate medical attention. Store tightly closed in a ventilated area and locked up.

3. Composition / information on ingredients

Substance: 7-Methyl-2H-1,5-benzodioxepin-3(4H)-one (Calone), CAS 28940-11-6; reported concentration >=99.0% to <=100.0%. Source lists skin corrosion, eye damage, and STOT single-exposure hazards.

4. First-aid measures

Seek medical attention promptly for suspected exposure. Eyes: Flush with water for at least 15 minutes; obtain immediate medical care given corrosive classification. Inhalation: Move to fresh air. Skin: Remove contaminated clothing and rinse skin thoroughly with water; obtain medical attention. Ingestion: Rinse mouth; do not induce vomiting; obtain immediate medical advice. Do not give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable extinguishing media: water, foam, carbon dioxide, or dry chemical. Product is a combustible powder and dispersed dust may form explosive mixtures with air. Avoid inhalation of combustion fumes; firefighters should use suitable respiratory protection.

6. Accidental release measures

Avoid skin and eye contact and dust inhalation. Wear chemical-resistant gloves and appropriate protection. Eliminate ignition sources and ventilate. Sweep up small spills carefully without dispersing dust. Prevent discharge to drains, soil, and waterways. Dispose in accordance with applicable regulations.

7. Handling and storage

Minimize dust accumulation. Avoid contact with skin and eyes; use appropriate PPE and ventilation. Avoid smoking, sparks, flames and high processing temperatures. Bond and ground equipment where dust ignition is possible. Store tightly closed, away from heat and temperature extremes; do not reuse empty containers.

8. Exposure controls / personal protection

Source reports no substance-specific occupational exposure limits. Maintain adequate local and general ventilation. Use chemical-impervious gloves, safety goggles/face protection and protective clothing. If dust exposure cannot be controlled, use appropriately selected NIOSH-approved respiratory protection. Source cites OSHA general dust limits: respirable dust 5 mg/m3 TWA; total dust 15 mg/m3 TWA.

9. Physical and chemical properties

Appearance: white crystalline powder. Odor: characteristic, strong. Melting point: 37.9 C. Boiling point: 267 C. Flash point (closed cup): >100 C (>212 F). Vapor pressure: <0.1 mm Hg at 20 C. Relative density: 1.353 at 21.6 C. Water solubility: 13,700 mg/L at 20 C. Log Kow: 1.95. Autoignition temperature: 400 C (analogue data). pH: not applicable. Other parameters: not available in source.

10. Stability and reactivity

Stable under normal recommended conditions. No known reaction with water. Avoid excessive heat, heating sealed containers, and contact with strong oxidizing agents. Hazardous polymerization is not expected.

11. Toxicological information

Acute oral toxicity: rat LD50 >2000 mg/kg. In-vitro human skin model (OECD 431): corrosive. In-vitro skin irritation (OECD 439): irritant. Skin sensitization tests (LLNA and ARE): non-sensitizing. Ames and mammalian mutation studies: non-mutagenic. Reproductive/developmental screening: NOEL reproduction 791-1768 mg/kg/day; NOAEL 791-887 mg/kg/day; NOAEL development 791-1768 mg/kg/day. No specific data reported for carcinogenicity, STOT repeated exposure, or aspiration hazard.

12. Ecological information

Algae 72-hour ErC50 >100 mg/L; Daphnia 48-hour EC50 >100 mg/L; zebrafish 96-hour LC50 >100 mg/L. Not readily biodegradable (7% in 28 days). Log Kow 1.95. Mobility in soil: no data. Source lists PBT/vPvB assessment as not applicable.

13. Disposal considerations

Dispose of contents and contaminated packaging according to applicable local, state and federal regulations. Do not release to drains or the environment. Use approved waste handlers.

14. Transport information

UN 1759; proper shipping name: CORROSIVE SOLID, N.O.S. (Calone); Hazard Class 8; Packing Group II. Source identifies this classification for land (ADR/RID), sea (IMDG) and air (ICAO/IATA). Verify current DOT and carrier-specific requirements, including packaging and emergency response, before offering for transport.

15. Regulatory information

Source reports no Section 313 reporting requirement. No chemical safety assessment information supplied. This SDS is based on the provided US HCS 2012 safety data; applicable regulatory status should be reviewed for the current inventory and jurisdiction.

16. Other information

H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H336: May cause drowsiness or dizziness. Source technical revision: 6 March 2023. This Veriscents document is based on supplied product safety data and must be reviewed against the actual material, current hazard classification, and applicable regulatory requirements before release.