

Material Safety Data Sheet

Date Printed: 03/24/2004 Date Updated: 09/02/2002 Version 1.20

Section 1 - Product and Company Information

Product Name Product Number Brand

BUTYROPHENONE, 99+% **7724338**

Aldrich Chemical

Company Street Address City, State, Zip, Country Technical Phone:

Sigma-Aldrich 3050 Spruce Street SAINT LOUIS, MO 63103 US 314 771 5765

Emergency Phone: 800 325 5052

414 273 3850 Ext. 5996

Section 2 - Composition/Information on Ingredient

Substance Name BUTYROPHENONE

CAS# 495-40-9 **SARA 313** Nο

Formula Synonyms C10H12O

Section 3 - Hazards Identification

Emergency Overview

Caution: Avoid contact and inhalation. Combustible.

HMIS Rating

Health: 0

Flammability: 2

Reactivity: 0

NFPA Rating

Health: 0

Flammability: 2

Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Dermal Exposure

In case of contact, immediately wash skin with soap and copious amounts of water.

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Section 5 - Fire Fighting Measures

Flash Point:

206.6 °F

97 °C

Autoignition Temp:

N/A

Extinguishing Media

Suitable

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Combustible liquid. Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area

Procedure(s) of Personal Precaution(s)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Government approved respirator.

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

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General Hygiene Measures

Wash contaminated clothing before reuse. Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance

Physical State

Color

Clear liquid

Light yellow-green

Molecular Weight:

148.21 AMU

Property pН

Value N/A 100 - 102 °C At Temperature or Pressure

Method: closed cup

Method: closed cup

10 mmHg

BP/BP Range MP/MP Range Freezina Point

11 °C N/A

Vapor Pressure N/A N/A N/A

Vapor Density Saturated Vapor Conc. SG/Density

0.988 g/cm3 **Bulk Density** N/A Odor Threshold N/A Volatile% N/A **VOC Content** N/A **Water Content** N/A Solvent Content N/A

Evaporation Rate N/A Viscosity N/A Partition Coefficient N/A Decomposition Temp. NΑ Flash Point °F 206.6 °F

Flash Point °C 97 °C **Explosion Limits** N/A Flammability N/A **Autoignition Temp** N/A Refractive Index 1.52

Solubility

N/A = not available

Section 10 - Stability and Reactivity

Stability

Stable

Stable. Materials to Avoid

Strong oxidizing agents, Strong reducing agents.

N/A

Hazardous Decomposition Products

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

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Hazardous Polymerization Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact

May cause skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

Eye Contact

May cause eye irritation.

Inhalation

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion

May be harmful if swallowed.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

RTECS Number:

Section 12 - Ecological Information

No data available

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material.

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

Proper Shipping Name: Toxic, liquids, organic, n.o.s.

UN#: 2810

Packing Group: Packing Group I

Hazard Label: Poison inhalation hazard

PIH: Not PIH

Proper Shipping Name: Toxic liquid, organic, n.o.s. IATA UN Number: 2810

Hazard Class: 6.1

Packing Group: 1

Section 15 - Regulatory Information

EU Additional Classification

Safety Statements

S: 23 24/25

Do not breathe vapor. Avoid contact with skin and eyes.

US Classification and Label Text

US Statements

Caution: Avoid contact and inhalation, Combustible,

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United States Regulatory Information

SARA Listed: No

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

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