

Material Safety Data Sheet

1. Product and company identification

Product name :
Product code : BZ7579 Product use :
Supplier/Manufacturer :

Telephone number :

D.O.T. Emergency phone :

Date of issue : 02/27/14

Date of previous issue : 09/10/10

2. Hazards identification

Emergency overview

HMIS: Section 15

Signal word : CAUTION

Hazard statements : CAUSES EYE IRRITATION.

Potential Health Effects : See Section 11 for more detailed information on health effects and symptoms.

Routes of entry : Absorbed through skin. Eye contact. Inhalation.

Eyes: Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin: May cause skin irritation. May be harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.

Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Inhalation: Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression.

Target organs : Prolonged or repeated contact may dry skin and cause irritation. Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Contains material which may cause damage to the following organs: blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
Butyl Cellosolve; Ethylene Glycol Monobutyl Ether; 2-Butoxyethanol	111-76-2	1 - 5
Ethanol; Ethyl Alcohol	64-17-5	<3

4. First aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Skin contact : Rinse with plenty of running water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation : Move exposed person to fresh air. If irritation persists, get medical attention.

4. First aid measures

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

5. Fire-fighting measures

Flammability of the product : COMBUSTIBLE LIQUID AND VAPOR.

Extinguishing media

Suitable : Use dry chemical, CO₂, water spray (fog) or foam.

6. Accidental release measures

Methods for cleaning up : Eliminate all ignition sources. Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

7. Handling and storage

Handling : Put on appropriate personal protective equipment (see Section 8). Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Do not ingest. Observe label precautions. Wash thoroughly after handling. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Keep out of the reach of children.

8. Exposure controls/personal protection

Ingredient	Exposure limits
2-butoxyethanol	OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 25 ppm 8 hours. TWA: 120 mg/m ³ 8 hours. NIOSH REL (United States, 1/2013). Absorbed through skin. TWA: 5 ppm 10 hours. TWA: 24 mg/m ³ 10 hours. ACGIH TLV (United States, 3/2012). TWA: 20 ppm 8 hours. OSHA PEL (United States, 6/2010). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 240 mg/m ³ 8 hours.
ethanol	ACGIH TLV (United States, 3/2012). STEL: 1000 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. NIOSH REL (United States, 1/2013). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. OSHA PEL (United States, 6/2010). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours.

Personal protection

HMIS: Section 15

Eyes : Safety glasses.

For prolonged or repeated handling, use gloves. Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

Respiratory : Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

Personal protective equipment



9. Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: 76.7°C (170.1°F) [Tagliabue.]
Boiling/condensation point	: 96.1°C (205°F)
Color	: Clear. Blue. [Dark]
Odor	: Pleasant.
pH	: 10.5 - 11.5
Relative density	: 0.998
Vapor pressure	: Not determined.
Vapor density	: Not determined.
Evaporation rate	: 1 (Water = 1)
Solubility	: Easily soluble in the following materials: cold water and hot water.
VOC (Consumer)	: 2.9 % (w/w) 0.244 lbs/gal (29.2 g/l)

10. Stability and reactivity

Hazardous decomposition : carbon oxides (CO, CO₂) products

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-

Chronic toxicity

Carcinogenicity

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 800000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
ethanol	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

13. Disposal considerations

Waste disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Waste classification : Code: -
Classification: - [Non-hazardous waste]
Origin: -

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14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		
IMDG Class	Not determined					

PG* : Packing group

15. Regulatory information

United States

:

California Prop. 65

Hazardous Material Information System (U.S.A.) :

Health 1 Flammability 2 Reactivity 0

National Fire Protection Association (U.S.A.) :

Health 1 Flammability 2 Instability/Reactivity 0 Special

Canada

WHMIS (Classification) : Not determined.

WHMIS (Pictograms)

16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.