



BETA-MERCAPTOETHANOL (BME) 2-MERCAPTOETHANOL



Cas no: 60-24-2

**Substance also known as:**

Beta-Mercaptoethanol/ 2-Mercaptoethanol/BME (99%)

Health Hazards *

- | | | | |
|--|---|--|---|
| <input checked="" type="checkbox"/> Fatal/very toxic | <input type="checkbox"/> Respiratory Sensitiser | <input type="checkbox"/> Teratogen | <input checked="" type="checkbox"/> Possible Teratogen |
| <input checked="" type="checkbox"/> Toxic | <input checked="" type="checkbox"/> Skin Sensitiser | <input checked="" type="checkbox"/> Irritant | <input type="checkbox"/> Causes Damage to Organs (Single Exposure) |
| <input type="checkbox"/> Harmful | <input type="checkbox"/> Carcinogen | <input type="checkbox"/> Possible Carcinogen | <input checked="" type="checkbox"/> Causes Damage to Organs (Repeated Exposure) |
| <input checked="" type="checkbox"/> Corrosive | <input type="checkbox"/> Mutagen | <input type="checkbox"/> Possible Mutagen | <input type="checkbox"/> None |

Physical Hazards *

- | | | | |
|------------------------------------|--|---|--|
| <input type="checkbox"/> Explosive | <input type="checkbox"/> Extremely Flammable | <input type="checkbox"/> Oxidising | <input type="checkbox"/> Corrosive |
| <input type="checkbox"/> Flammable | <input type="checkbox"/> Highly Flammable | <input type="checkbox"/> Gas under pressure | <input checked="" type="checkbox"/> None |

Environmental Hazards *

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> Very toxic to aquatic life | <input type="checkbox"/> Very toxic to aquatic life with long lasting effects | <input type="checkbox"/> May cause long lasting harmful effects to aquatic life |
| <input type="checkbox"/> Toxic to aquatic life | <input checked="" type="checkbox"/> Toxic to aquatic life with long lasting effects | |
| <input type="checkbox"/> Harmful to aquatic life | <input type="checkbox"/> Harmful to aquatic life with long lasting effects | <input type="checkbox"/> None |

Routes of Contamination *

- | | | | |
|--|---|--|--|
| <input checked="" type="checkbox"/> Inhalation | <input checked="" type="checkbox"/> Ingestion | <input checked="" type="checkbox"/> Skin Contact | <input type="checkbox"/> Skin Puncture |
| <input type="checkbox"/> Aspiration | <input checked="" type="checkbox"/> Eye Contact | <input checked="" type="checkbox"/> Absorption | |

What form is the substance supplied in? *

- | | | |
|------------------------------|---|---------------------------|
| <input type="radio"/> Solid | <input type="radio"/> Liquid | <input type="radio"/> Gas |
| <input type="radio"/> Powder | <input checked="" type="radio"/> Solution | |
| | <input checked="" type="radio"/> No | <input type="radio"/> Yes |

Does the substance have a Workplace Exposure Limit (WEL)? *

Engineering Controls:

ALWAYS use a **DUCTED** Fume cupboard when working with concentrations >0.1%**SEEK ADVICE** from your H&S provider regarding any concentration >0.1% where a ducted fume cupboard is not available.**N.B.** ≤0.1% BME can be worked with safely in a recirculating MSC or on the bench.

PPE:

Red SHIELDskin CHEM gloves (nitrile gloves provide little to **NO** protection)!**Safety Specs****Lab coat**

Storage:

DUCTED safety cabinet (connected to, and ventilated through, the ducted fume cupboard) **OR****SAFEPAK** clearly labelled (ask your H&S provider for further information).

Emergency Spillage information

This chemical is an inhalation hazard requiring specialist procedures.

Suitable absorbent granules are available that can completely neutralise and lock-down harmful vapours.

Powered Respiratory Equipment will likely be required due to the solution's hazardous nature.

Health Surveillance Required: **YES**

Annual Health Questionnaire – respiratory and dermal