

NDMRB-RA-095
Risk Assessment: 2 β Mercaptoethanol

Scope

2- β mercaptoethanol is a potent reducing agent. It is used to reduce protein disulphide bonds by cleaving intra- and intermolecular disulphide bonds. It is also used for retarding oxidation of biological compounds in solution. It is an unstable solution.

All staff must be trained and must read all associated COSHH and RA before using the compound.

This replaces **TDI-RA-035**

| | | | | | |
|--------------------------|-------------------------|----------------------------|------------|---------------------|---------------|
| Name of assessor: | Marie-Laetitia Thezenas | Date of Assessment: | April 2015 | Review Date: | Every 3 years |
|--------------------------|-------------------------|----------------------------|------------|---------------------|---------------|

Risk Matrix:

| Risk Matrix | | Likelihood | | | |
|-------------|---------------|------------------|------------------|------------------|------------------|
| | | High | Medium | Low | Negligible |
| Consequence | Severe | High | High | Medium | Effectively Zero |
| | Moderate | High | Medium | Medium/low | Effectively Zero |
| | Insignificant | Medium/Low | Low | Low | Effectively Zero |
| | Negligible | Effectively Zero | Effectively Zero | Effectively Zero | Effectively Zero |

Risk Assessment:

| Hazard (Cause and consequence) | Affected Groups | Existing controls | Risk | Further Action |
|--|-----------------|---|--------|---|
| Toxic in contact with skin Harmful if swallowed Irritating to eyes, skin and respiratory system Evidence of mutagenic effects | Staff | Gloves, glasses and lab coat must be worn at all times when handling the compound. Because it gives off an offensive smell and harmful fumes it must be handled in a fume hood at all times and must be stored in a well ventilated area. | Medium | Ensure that all users of the compound are trained and have read all COSHH and RA. |
| Combustible liquid | Staff | Compound must be kept away from all sources of ignition at all times | Medium | Ensure that all users of the compound are trained and have read all COSHH and RA. |

Signed By Author:

Approved by (sign and print):

Reviewed by:

Review date: