

US. ACGIH Threshold Limit Values (TLV)

| Components | Type | Value |
|-------------------------|------|----------|
| ISOBUTANE (CAS 75-28-5) | STEL | 1000 ppm |

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

| Components | Type | Value |
|---|------|-------------------|
| Ammonia, aqueous solution (CAS 1336-21-6) | IDLH | 15 % 300 ppm |
| PROPANE (CAS 74-98-6) | IDLH | 2.1 % 2100 ppm |

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

| Components | Type | Value |
|--|------|------------|
| Ammonia, aqueous solution (CAS 1336-21-6) | STEL | 27 mg/m3 |
| | | 35 ppm |
| | TWA | 18 mg/m3 |
| | | 25 ppm |
| Distillates (petroleum), hydrotreated light (CAS 64742-47-8) | TWA | 100 mg/m3 |
| ISOBUTANE (CAS 75-28-5) | TWA | 1900 mg/m3 |
| | | 800 ppm |
| PROPANE (CAS 74-98-6) | TWA | 1800 mg/m3 |
| | | 1000 ppm |
| Solvent naphtha (petroleum), heavy arom. (CAS 64742-94-5) | TWA | 400 mg/m3 |
| | | 100 ppm |

US. OARS. Workplace Environmental Exposure Level (WEEL) Guide

| Components | Type | Value | Form |
|--------------------------------|------|----------|----------|
| Propane-1,2-diol (CAS 57-55-6) | TWA | 10 mg/m3 | Aerosol. |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide eyewash station and safety shower. Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust and/or mist, use process enclosure, appropriate local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin protection**Hand protection**

Suitable chemical protective gloves should be worn when the potential exists for skin exposure. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Use protective gloves made of: Polyvinyl chloride (PVC). Nitrile.

Other

Wear appropriate chemical resistant clothing if applicable.

Respiratory protection

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.