

<b>Substance</b>	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>UN Number</b>	1170
<b>HIN</b>	33
<b>ADR Label</b>	3
<b>ADR Class</b>	3
<b>Classification Code</b>	II
<b>Packing group</b>	3, F1, II
<b>ERIC</b>	3-09
<b>Default</b>	Yes

## Emergency Response Information

### HIGHLY FLAMMABLE LIQUID

#### 1. Characteristics.

- Gives off dangerous fumes.
- Flash point below 23°C.
- Hazardous to eyes and air passages.
- Miscible with water (more than 10%), OR heavier than water.

#### 2. Hazards.

- Heating of container(s) will cause pressure rise with risk of bursting and subsequent explosion.
- May form explosive mixture with air.
- Gives off toxic and irritant fumes when heated or burning.
- The vapour may be invisible and is heavier than air. It spreads along the ground and may enter sewers and basements.
- May be narcotic and cause unconsciousness.

#### 3. Personal Protection.

- Self contained breathing apparatus.
- Chemical protection suit if risk of personal contact.
- Consider wearing standard fire fighting clothing underneath the suit.

#### 4. Intervention Actions.

##### 4.1 General.

- Keep upwind.
- No smoking, eliminate ignition sources.
- PUBLIC SAFETY HAZARD - Warn people nearby to stay indoors with doors and windows closed. Stop any ventilation. Consider evacuation of people in immediate danger.
- Minimise number of personnel in risk area.

## 4.2 Spillage.

- Stop leaks if possible.
- Contain spillage by any means available.
- Check explosive limits.
- Use low sparking hand tools and intrinsically safe equipment.
- Absorb substance in sand or earth or any other suitable material, or cover with alcohol resistant foam.
- If substance has entered a water course or sewer, inform the responsible authority.
- Ventilate sewers and basements where there is no risk to personnel or public.

## 4.3 Fire (involving the substance).

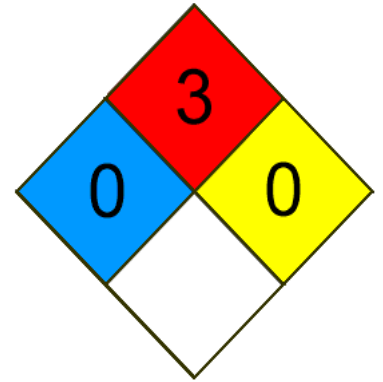
- Keep container(s) cool with water.
- Extinguish with alcohol resistant foam if available - waterfog (spray) - dry powder, subsequently secure with foam blanket.
- Do not use water jet to extinguish.
- Use water spray to knock down fire fumes if possible.
- Avoid unnecessary run-off of extinguishing media which may cause pollution.

## 5. First Aid.

- If substance has got into eyes, wash out with water for at least 15 minutes and seek immediate medical attention.
- Remove contaminated clothing immediately and drench affected skin with plenty of water.
- Persons who have been in contact with the substance or have inhaled fumes should get immediate medical attention. Pass on all available product information.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing adhering to skin.

## 6. Essential Precautions For Product Recovery.

- Ensure proper earthing of pumping equipment.
- Use flame proof pump(s). If electrically driven, minimum class T3.
- Use mineral oil resistant equipment.
- Recover spilled product in vented container fitted with absorption filter.



## 7. Precautions After Intervention.

### 7.1 Undressing.

- Drench contaminated suit and breathing apparatus with water before removing facemask and suit.
- Use chemical protection suit and self contained breathing apparatus while undressing contaminated co-workers or handling contaminated equipment.
- Contain decontamination run off.

### 7.2 Equipment Clean Up.

- Drench with water before transporting from in

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