

1 MSDS Restrain Ethanol

1.1 Material Safety Data Sheets

1.1.1 Identification of the substance

Trade Name: Restrain Ethanol

Product Trivial Name: Ethyl Alcohol

Chemical name: Ethanol

Identification of the company

Restrain Company Ltd.

Unit 7 The Forum,

Minerva Business Park,

Lynch Wood, Peterborough, PE2 6FT United Kingdom

1.1.2 Composition

CAS No : 64-17-5 200

EC No: 578-6

1.1.3 Hazards identification



Flammability: Highly flammable liquid.

Eye: Irritating on contact with the eyes.

Skin: Prolonged contact may be irritating to the skin, causing drying and cracking. Dermatitis may result from repeated, prolonged skin contact.

1.1.4 First aid measures

Eye: Immediately wash out eye thoroughly with large amounts of water until irritation stops. Seek Medical Advice. Do not wear contact lenses when working with this product.

Skin: Should this liquid contact the skin, flush the contaminated area with water promptly. If the liquid penetrates the clothing remove the clothing and flush the skin with water. If irritation persists after washing get medical help.

Ingestion: If the liquid has been swallowed, induce vomiting if person is conscious. Get medical attention immediately.

1.1.5 Fire-fighting measures

The liquid is Highly Flammable. Extinguishing Media: Foam, carbon dioxide, chemical powder.

1.1.6 Accidental release measures

Should the Restrain Ethanol be spilled or accidentally released, the following steps should be taken:

1. The area of spillage or release needs adequate ventilation.
2. All sources of heat or ignition must be removed.
3. Clean up personnel must be provided with appropriate respiratory protection and protective clothing.
4. Use sand or vermiculite to absorb the liquid.
5. Place used absorbent materials in closed containers for disposal.
6. Wash spill area with water.

1.1.7 Handling and storage

Keep the Restrain Ethanol away from all sources of heat and ignition. Wear chemical resistive gloves and chemical safety goggles. Protective clothing should be worn as required.

Store in a dry, locked storage area not subject to extremes of temperature.

Keep away from water and foodstuffs.

Store well away from sparks, flames and oxidizing materials.

Smoking is not allowed in the vicinity of either liquid or gas.

1.1.8 Exposure control and personal protection

Ensure measures are taken to eliminate possibility of sparks, flames, ignition in area of use.

Observe normal precautions for handling chemicals. Avoid eye and skin contact with the liquid.

Wear appropriate personal protective equipment (as follows).

Wash thoroughly after handling.

Wear Chemical Safety Goggles.

An all in one chemical - resistant suit should be available.

A NIOSH/MSHA approved cartridge respirator can be worn should the gas cause irritation.

1.1.9 Physical and chemical properties

Restrain Ethanol: Virtually colourless with an acetone odour.

1.1.10 Stability and reactivity

Stability: Stable under normal handling conditions. Avoid the following conditions: Heat, sparks, open flames, contact with oxidizing materials.

Reactivity: Incompatible with strong oxidizers, potassium dioxide, bromine pentafluoride, acetyl bromide, acetyl chloride, platinum, sodium.

1.1.11 Toxicological information

Causes skin irritation.

Causes eye irritation.

Harmful if ingested.

May be harmful if absorbed through the skin.

1.1.12 Ecological information

Product should not be allowed to enter drains or water courses. Do not dispose on ground.

Remove to suitable landfill.

1.1.13 Disposal considerations

This product is flammable and must be disposed of accordingly. Special landfill or incineration may be used. Do not dispose into waterways or sewers or onto the ground.

1.1.14 Transport information

United Nations No : UN 1170

Packaging group: II

Shipping name: Ethanol Highly Flammable

1.1.15 Regulatory information



Classification and labelling

Harmful Highly Flammable

The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations (CHIP 3).

Highly Flammable Safety: S(1/2) Keep locked up and out of reach of children.

Keep away from sources of ignition - No Smoking

Wear suitable protective clothing, inc. gloves.

In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

1.1.16 Other information

Restrained Ethanol should always be stored in conditions appropriate to a highly flammable liquid.

Up to 50 litres of Restrained fuel may be kept in a working area in a suitable bin or cupboard that is of fire resisting structure, and is designed to retain spills and marked highly flammable.

Quantities of more than 50 litres should be kept in secure areas designated for flammable storage and separate from normal working areas and with good ventilation. Further details can be found in the following Health & Safety Executive publications: available from HMSO:

L135 Storage of Dangerous substances; Approved code of practice Dangerous Substances and Explosive Atmospheres Regulations 2002.

HSG51 The storage of flammable liquids in containers.

Empty Restrained fuel containers should be washed out with water and disposed of or recycled as for standard plastic containers.

1.2 Fuel COSHH assessment

Activity

Handling Restrain Ethanol containers.

Reason For Activity

To maintain a stable atmosphere of ethylene in a store.

Status Of the Person doing the activity

Store Manager

Product

Restrain Ethanol

Hazard Identification



Highly Flammable



Harmful

Risk Assessment

Causes eye irritation.

Ingestion can cause nausea, vomiting and inebriation.

Contact with the skin is unlikely to cause appreciable irritation even on repeated contact.

Unlikely to be absorbed in harmful amounts through contact with the skin.

First Aid

Eyes	Irrigate thoroughly with water.
Lungs	Remove from exposure, rest and keep warm.
Skin	Wash with water and remove contaminated clothing.
Mouth	Wash out and give plenty of water to drink.

Spillage

1. All sources of heat or ignition must be removed.

2. Use sand or vermiculite to absorb the liquid.
3. Place used absorbent materials in closed containers for disposal.

Disposal of containers

Containers should be pierced and placed in appropriate waste disposal.