

BRENT

**INDUSTRIAL SYSTEMS GROUP
BRENT EUROPE LIMITED**

TECHNICAL INFORMATION

PRODUCT: Cold Immersion Carbon and Paint Remover

ARDROX 670

Description and Uses

Ardrox 670 is a mixture of solvents, surfactants and corrosion inhibitors. It contains an aqueous inhibited seal which prevents evaporation of volatile solvents.

Ardrox 670 has been specifically developed for the removal of tenacious burnt-on carbonised deposits, polymerised gums etc., such as are found on petrol and diesel engines during overhaul. It will effectively remove many types of paint schemes.

Ardrox 670 has been found useful for removing the carbonaceous deposits left on moulds during the production of vulcanised rubber parts.

Ardrox 670 is used for the cleaning of oil burner tips and heavily carbonised oil-firing equipment.

Approvals

C.E.G.B. Group 2 Type 3C Code Number 20/88/239.

Method of Use

Ardrox 670 is used as supplied at ambient temperatures. It should not be heated. Parts to be cleaned should be completely immersed in the lower layer. Immersion times will vary with the degree of contamination and may be from half an hour to an overnight soak. The deposits are physically changed so that a pressure water rinse with a BCP 65 air/water gun will completely remove them.

Although Ardrox 670 will remove grease and oil it is desirable when using it primarily as a carbon remover to use a prior degreasing process, to extend the life of the bath. Ardrox 610C or 610I are recommended for this process.

Method of Control

A separate Method of Control document is available describing the necessary control procedures required to maintain optimum performance from Ardrox 670.

Continued.



A Member of the Brent Chemicals International Group

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FM 1723
ISO9001-1987
EN29001-1987

Health and Safety

Avoid contact with skin, eyes and clothing.
Avoid breathing vapour (contains methylene chloride).
Use under conditions of adequate ventilation.
Open container with caution.
No smoking or other open flames should be permitted when using this product.
In case of skin contact or spillage wash thoroughly with water.
In case of eye contact irrigate thoroughly with plenty of water and seek medical advice.
Protective clothing including gloves and eyeshields should be worn.

PLEASE READ OUR HEALTH & SAFETY INFORMATION SHEETS BEFORE USE.

Effects on Materials

When Ardrex 670 is used in the prescribed manner no significant corrosion is likely to be encountered on the following metals: steel, copper, magnesium, cadmium plated steel, aluminium, nickel or chromium.

It will not affect chemical conversion coatings such as anodising, phosphating, chromating and black oxidising treatments.

As conditions of use may vary considerably, particularly where dissimilar metals are in close contact, intended users are advised to check their specific requirements in this respect.

The product will degrade the majority of plastics and rubbers. Mild steel (BS 1449) or stainless steel (Type EN58J or A.I.S.I.-316) are suitable materials for tank construction.

Technical Information

Appearance : Dark brown coloured liquid with an upper aqueous seal.
Density (lower layer) : 1.16 g/ml at 20°C.
Flash Point : Non-flammable.
pH : 10.5 - 10.9

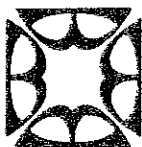
These are typical values only and do not constitute a specification.

Storage requirements : Store in a cool dry place away from sources of heat.

General Information

Consumption is largely by drag-out. When replenishing, drums should be shaken first to ensure a proper proportion of active materials and seal. Drums should be opened with caution after shaking, particularly in hot weather.

Ref: 10/82/2/CS/E1



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SAFETY DATA SHEET

PRODUCT: ARDROX. 670

DESCRIPTION

Diphase liquid. Upper layer is a clear, yellow liquid consisting of an aqueous solution of sodium chromate. Lower layer is a clear, brown liquid consisting of a blend of dichloromethane, cresylic acid, ammonia solution, soap and corrosion inhibitor.

POTENTIALLY HAZARDOUS COMPONENTS	%	HAZARD
DICHLOROMETHANE	25 - 50	MEL* = 100 ppm HARMFUL
CRESYLIC ACID	25 - 50	OES**= 5 ppm TOXIC
AMMONIUM HYDROXIDE	1 - 10	OES**= 25 ppm (as NH ₃)

*Maximum Exposure Limit. **Occupational Exposure Standard.

NB: This product has an aqueous seal to reduce the level of vapour reaching the atmosphere.

HAZARDS

Extremely irritating, or corrosive, to eyes and skin.
Toxic by inhalation, ingestion and skin absorption.
Inhalation of vapours may have narcotic or anaesthetic properties.
Thermal decomposition will produce toxic gases.

PRECAUTIONS

Avoid contact with skin and eyes.
Do not breathe vapour.
Do not swallow the product.
Use only under conditions of adequate ventilation. Fume extraction is recommended on immersion tanks and the associated rinse stage.
Wear protective clothing including impervious gloves, apron, overalls and eye/face protection.
No smoking or naked flames should be allowed near the product.

FIRST AID

EXPOSURE SYMPTOMS/HAZARD	ACTION
<u>EYES</u> Pain or irritation, watering, redness. Corneal burns may occur.	Irrigate immediately with plenty of water and continue for at least 15 mins. OBTAIN IMMEDIATE MEDICAL ATTENTION.
<u>SKIN</u> Irritation or burning sensation. Burns may occur. Skin absorption may lead to poisoning. Symptoms are the same as for ingestion.	Wash off with soap and water or polyethylene glycol 300. Remove contaminated clothing immediately. OBTAIN IMMEDIATE MEDICAL ATTENTION.
<u>INGESTION</u> Nausea, dizziness, stupor, headache. Large amounts may lead to unconsciousness.	OBTAIN IMMEDIATE MEDICAL ATTENTION.
<u>INHALATION</u> Symptoms are the same as for ingestion.	Remove to fresh air and OBTAIN IMMEDIATE MEDICAL ATTENTION.



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FIRE DATA

Ardrox 670 is non-flammable. However, dichloromethane vapour can form flammable mixtures with oxygen and it is possible to ignite dichloromethane/air mixtures under very limited conditions i.e. limits of 13 to 22% by volume at 25°C and 1 bar pressure by using a very high energy source e.g. electric arc. On heating to decomposition toxic gases will be produced and so breathing apparatus should be worn.

STORAGE

Store away from direct heat, flammable materials, open flames or other fire hazard.

Store and transport containers in an upright position.

Store in original containers, kept tightly closed.

SPILLAGE

Ventilate the area well or wear breathing apparatus. Wear full protective clothing.

Spillages should be absorbed using mineral granules, sand or earth, sealed in polythene bags and removed by a reputable waste disposal company. Residues should be washed away with detergent solution to the effluent treatment plant.

WASTE DISPOSAL

This product must not be discharged into local authority waterways or sewers. Employ the services of a reputable waste disposal company.

FURTHER INFORMATION

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