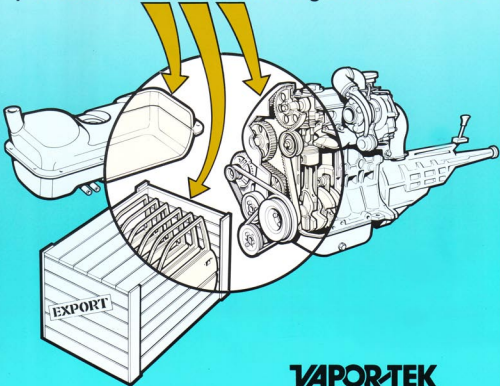# VAPOROL

**COMBINED VPI (VAPOUR PHASE INHIBITOR)
AND CONTACT INHIBITOR OIL**

clean, simple, quick, cost-effective

protects the INSIDE of things from corrosion

EXPORT

VAPOR-TEK

VAPOROL

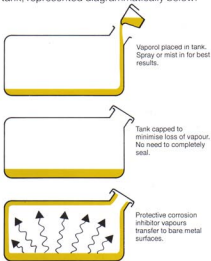## combined vapour and contact protection

A unique formulation that gets to the very heart of the problem of corrosion in unseen areas

How Vaporol works – the inside story

This is illustrated by the preservation of a fuel tank, represented diagrammatically below:

With ordinary preservative oils, all surfaces will be completely coated.

This is often difficult and sometimes impossible. Even when possible the oil will drain away with consequent loss of protection. Vaporol has only to be present in the tank (or any enclosed system) – the vapours do the rest. With more complex structures such as engines, gearboxes, etc., this means that the awkward and difficult-to-reach nooks and crannies can easily be protected.

Vaporol placed in tank. Spray or mist in for best results.

Tank capped to minimise loss of vapour. No need to completely seal.

Protective corrosion inhibitor vapours transfer to bare metal surfaces.

Benefits of using Vaporol

LOW COST– A little goes a long way. Also, since application is generally quick and simple, the time and labour saving can often more than offset the entire cost of the material.

EFFECTIVE– Many years of experience with Vaporol has proved that it is a reliable, fast acting (a matter of minutes) and long lasting (years in many cases) means of protecting _internal_ surfaces and mechanisms.

ENVIRONMENTAL CONSIDERATIONS– Vaporol is nitrite free and does not contain volatile solvents or other volatile organic compounds (VOC's) damaging to the environment. No chlorinated substances or heavy metals are present.

COMPATIBILITY OF VAPOROL WITH FUELS & OILS– Vaporol is compatible with petrol, diesel, fuel oils and most lubricants. _Therefore there is generally no need to remove the Vaporol when equipment is put into service._ This both saves time and allows equipment to be available for instant use – clearly important in the case of such items as military vehicles, rescue equipment, stand-by generators, seasonal equipment (including marine), etc.
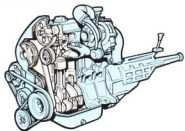
Some synthetic oils, especially those based on polyglycols, may not be compatible – if any doubt exists, please consult us as we can usually formulate special products to meet specific requirements.
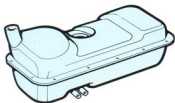
For example,

VAPOROL

will protect the inside of these.....
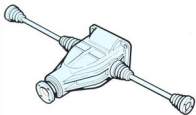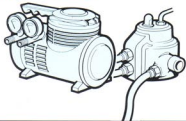
ENGINES & GEARBOXES

FUEL TANKS

INSIDE PIPES & TUBES

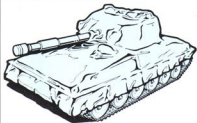**AXLE ASSEMBLIES**

EXPORT PACKAGING

EXPORT

PUMPS, COMPRESSORS & HYDRAULIC SYSTEMS

LAID-UP – but ready to go!

.....or any enclosed area

VAPOROL

COMBINED VPI AND CONTACT INHIBITOR OIL

GUIDANCE NOTES– Vaporol works only in those areas which can be sufficiently enclosed to allow the vapours to build-up to a working concentration. However, unlike when desiccants are used, protected areas need not be sealed. As long as they are sufficiently enclosed to prevent undue loss of vapour, protection will continue, since Vaporol contains a massive back-up of inhibitor (over a million times its own volume). Typical examples of suitably enclosed areas are shown on the inside of this literature.

Most importantly, it is *not* essential that metal surfaces be *coated* with Vaporol: *the vapours will do that*. However, in those cases where it is possible to conveniently coat surfaces, the *contact* inhibitors in Vaporol come into play to give *extra protection*. (Examples include large diameter pipework, small tanks which can be filled and then drained, parts which can be dipped or otherwise coated prior to packing – and so on).

The amount of Vaporol needed will vary with the circumstances such as the nature of the metal surface, length of protection required, storage conditions, etc. As a general guide, 0.5 – 1.0 ml per litre of space (0.5 – 1.0 litres per cubic metre) to be protected would be average. If fuel or oil is present, an *additional* 2 – 5% of Vaporol (based on the amount of fuel or oil) should be added.

EFFECTS ON NON-FERROUS METALS AND NON-METALS– Vaporol, in both the liquid and vapour phases, affords positive protection to ferrous metals, tin, aluminium and nickel. Some metals and alloys are affected by the *vapours* of Vaporol. These include copper and some of its alloys, zinc, cadmium and lead. The effect is generally cosmetic only and confined to the surface, e.g. slight discolouration.

Vaporol behaves towards non-metals (rubbers, paints, plastics, etc.) in a manner similar to other mineral oils.

If in doubt, carry out appropriate checks and consult Vapor-Tek Ltd.

AVAILABLE IN CONCENTRATE FORM– Vaporol is also available as a concentrate. This is mainly intended for customers who wish to use it as an additive to up-grade lubricating or protective oils to embody vapour-phase inhibitor properties.

HEALTH & SAFETY– Vaporol contains a highly refined mineral oil and is therefore classed as 'flammable' and should be treated accordingly. Fires or spillages should be dealt with in the same manner as for mineral oil. Vaporol does not contain nitrites, heavy metals, solvents or other harmful or toxic materials. However, as with all oil-based products, prolonged or repeated skin contact should be avoided and appropriate protective clothing worn where necessary. Avoid inhalation of spray. More detailed information is available on request.

TECHNICAL SERVICE– All Vapor-Tek products are backed by comprehensive technical and laboratory services, including research and test facilities. Qualified staff are on hand to discuss the use of Vapor-Tek products and to advise on general problems of corrosion.

OTHER VAPOR-TEK PRODUCTS– A comprehensive range of corrosion preventives for use in storage, transit and export situations. It includes Ultra-thin film protectives, Touch-dry films for better handling, Oily films for lubrication and penetration, Acid fume resistant coatings, Protective greases (including a vapour-phase inhibitor grade), Water-based combined contact and vapour-phase inhibitors, Vapour-phase inhibitor paper, VOC-free protectives, etc. In addition special products to meet specific needs can be formulated and manufactured. Do not hesitate to contact Vapor-Tek to discuss your problems and requirements.

VAPOR-TEK