

VANASOLVENT

DESCRIPTION

VANASOLVENT is a liquid compound that contains chemicals proven effective in reducing harmful effects of vanadium oxides and sodium salts in diesel engines. Adding *VANASOLVENT* to bunker fuel forms a complex that de-activates the vanadium and sodium common in heavy bunker fuels. The melting point of vanadium pentoxide is 675°C and sodium sulfate is 880°C. When *VANASOLVENT* is employed, the complexes formed with vanadium and sodium sulfate by the agents in *VANASOLVENT* melt at about 1100°C.

APPLICATIONS

VANASOLVENT is used both in steam and motor vessels burning heavy fuel oils to improve combustion efficiency, reduce corrosion, disperse sludge and separate water. It is primarily formulated for use in diesel engines to prevent valves failure.

DIRECTIONS FOR USE

VANASOLVENT is introduced manually into the fuel tanks prior or during bunkering. The fuel movement on entering the tank will blend the product completely with the fuel. The product can also be dosed automatically into the fuel oil service line, prior to the service pump by means of a metering pump. The *UNIMARINE METERING PUMP* is recommended.

PRODUCT DOSAGE

Dosage requirements depend on the nature and amount of impurities, but typical dosage rate is 1 lt. of *VANASOLVENT* per 4 tons of fuel oil, considering a normal vanadium of 100 PPM. To establish a more accurate and cost efficient dosage rate, it could be useful to test or know the vanadium content at each bunkering.

NATURE OF SPECIAL RISKS AND SAFETY ADVICE

In accordance with the latest EEC Council directives this product is subjected to:

- R65 : Harmful; may cause lung-damage if swallowed
- S2 : Keep out of reach of children
- S23 : Do not breathe gas, fumes, vapor or spray
- S24/25 : Avoid contact with skin and eyes
- S62 : If swallowed do not induce vomiting; seek medical advice immediately and show the container or label

Code: 161164413



VANASOLVENT

Highly effective ash modifier
and high temperature corrosion
inhibitor for diesel engines
and boilers

- Reduces high temperature corrosion
- Reduces corrosion effects caused by vanadium and sodium impurities
- Reduces fouling in post combustion zone such as turbo charges, exhaust valves, economizers
- Separates emulsified water in fuel and enhance water separation at the separator
- Reduces unburned particles and soot emission
- Extends life of valves, cylinders etc.

PRODUCT CHARACTERISTICS

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| Appearance: | clear liquid, amber / brown |
| Corrosive action: | metals - non rubber - slight swelling |
| Specific gravity: | 0,90 (20°C) |
| Flash point: | >63°C |
| IMO Class: | 9 / III |
| UN Number: | 3082 |
| ADR: | 9.11c) |

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