



Oil Kits Supply



WA-SOL[®]

Water-in-Oil Reagent Composition Kit

INSTRUCTION MANUAL





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1. Introduction

Taking into consideration the broad scope of applicability of the water-in-oil reagents for on-site test analyses and following the necessity of technological development in this area, Martechnic® has elaborated the reagent composition kit WA-SOL® which is considered as a successful invention with a conceptual difference. WA-SOL® can be transported without any limitations which were previously imposed on the products of this kind.

WA-SOL® is **NOT CLASSIFIED AS DANGEROUS GOOD FOR TRANSPORT** per UN Model Regulations.

Therefore, Martechnic® is able to ensure best possible options with regard to product supply and environmental protection within the frameworks of its oil quality management.

2. WA-SOL® Components

The reagent composition kit WA-SOL® consists of two components: WA-SOL® Basic and WA-SOL® Activator.

WA-SOL® Basic is solid like paste and contains calcium hydride encapsulated in a special gelatinous mass. This prevents the reaction of the calcium hydride molecules with water during transportation. The bottle of the WA-SOL® Basic is well-protected and sealed when delivered.

WA-SOL® Activator is required to dilute the WA-SOL® Basic in order to prepare the final reagent for use.



3. Safety Advice

Before starting to mix the components of the reagent composition kit WA-SOL® appropriate ventilation of the room has to be ensured. The components should be kept away from ignition sources. It is important to read and understand the Material Safety Data Sheets.

Gloves and safety glasses have to be worn for protective reasons. If a solution spill occurs, it should be cleaned immediately with a cleaning cloth.

4. Reagent Preparation

To mix both components open the bottles with the WA-SOL® Basic and the WA-SOL® Activator.

When opening the WA-SOL® Basic, the protective seal gets broken.

The bottle of the WA-SOL® Basic is half full with the reaction substance as its content gets diluted directly in the same bottle without a need to use any extra chemical glassware.



The entire content of the WA-SOL® Activator is poured into the bottle with the WA-SOL® Basic.



In order to thoroughly mix the WA-SOL[®] Basic and the WA-SOL[®] Activator, the reagent composition kit WA-SOL[®] is supplied with a stirring hook.



By means of a drilling machine or any other suitable mixing equipment, both components are stirred for approximately 1 minute until a homogeneous mixture has been generated.



The obtained final reagent can be used in the same way as Martechnic[®] WIO and WT05 Solution.



5. Handling and Storage Conditions

After delivery the WA-SOL[®] Water-in-Oil Reagent Composition Kit should be kept tightly closed and stored cool and dry.

Once the components of the WA-SOL[®] have been mixed, the obtained reagent can represent a hazard as it is not anymore considered as a non-dangerous product for transportation and should be handled correspondingly.

When two or more WA-SOL[®] Reagent Composition Kits are supplied, it is recommended to activate only one for the current use as the reagent's performance efficiency might be decreasing with time. Thus, the obtained final reagent should be used within a year.

6. WA-SOL[®] Basic: Important Information

Since the components of the WA-SOL[®] Water-in-Oil Reagent Composition Kit have to be mixed - this should be done on-site - the regulation for dangerous goods must be considered.

According to EC regulations the final product is classified and labelled as follows:

EU labelling:

Acc. to regulation (EC) 1272/ 2008



Pictograms

GHS02 Flame

Signal word: Danger

H statements:

H 260 - Contact with water releases flammable gases which may ignite spontaneously.

P statements:

P262 - Do not get on eyes, on skin, or on clothing.

P370+P 378 - in case of fire: use foam/ dry/CO₂ and NO water for extinction.

P 402+P 404 -Store in a dry place. Store in a closed container.

As the calcium hydride in the final mixture is in a reactive state, **this mixture** falls under the regulations for transport of dangerous goods with following classification:

UN-No.: 3148

Water-reactive liquid, n. o. s. (Calcium Hydride Solution)

Class 4.3, Packing Group I

For further information please check Material Safety Data Sheet WA-SOL® Basic (sections 14 and 16).



7. Environmental Concern and Disposal Considerations

Martechnic® follows the principle of environmental responsibility and organizes its work on the basis of the environmental management system.

The components of the reagent composition kit WA-SOL® are non-hazardous products for transport and can be delivered by all means of transportation.

Due to the adherence to environmental policies, Martechnic® recommends to properly dispose of the used products according to local regulations and products specifications.

More detailed information on the ecological aspects and disposal considerations can be found in the Material Safety Data Sheets.



FUEL- LUBE-
HYDRAULIC-

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