

## Elabd Chemical Industries

M. Assuit st, Tamooh- EL Hawamdia

Giza – Egypt

[www.el3abd-chemical.com](http://www.el3abd-chemical.com)

[info@el3abd-chemical.com](mailto:info@el3abd-chemical.com)

Mob. 0020112210634

Fax. 0020238127424



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## Silver solvent

### Technical and safety Data sheet

#### SECTION 1 : Chemical product Identification

Silver solvent is flexible economic safe product witch is ideal for general reclining.

- \* Silver solvent can be classified as mixed between the solvent and detergent.
- \* Silver solvent is a concentrate of three adivenonionic surfactants mixture dissolvd water . bioeregrable and high efficient to dispers oil spill.
- \* as the result the Silver solvent content solvent and nonionic surfactants can be dissolved wax, fatty and bitomin .

#### SECTION 2 : ACTION MECHANISM.(when used as dispersant)

Silver solvent is flexible economic safe product witch is the dispersant dispersent decrease the oil water inter facial tension, so it disintegrates promptly the oil spill and helps breakup the large spills ,which present atmospheric oxygen from dissolving in seawater . The quick breaking up of large oil spill allows oxygen to dissolve in sea water reading the living marine organism and preserving the ecology. This oil in water dispersion is completely biodegraded.

### SECTION 3 : Dilution Rates

1- Oil Spills	1:5 (Water)
2- Cleaning Petroleum Tank	1:30
3- General Cleaning	1:5
4- High Pressure System	1:50

### SECTION 4 : CHEMICAL AND PHYSICAL PROPERTLS

Physical form	: Liquid
Color	: Clear
Density at 25 °c	: $1.02 \pm 0.05 \text{ gm/cm}^3$
Solubility in water	: Soluble in all portions
PH-value ,conc. solution	: 6.8 – 7.0
Flash point	: 7300 cc ( closed cup )
Toxicity	: Nontoxic
Aromatics	: Aromatic free

### SECTION 5 : ADVANTAGES OF

- \* Silver solvent is a concentrate of very surfactants mixed with solvent . and can be diluted into 20 times by seawater.
- \* It is highly biodegradable . It physically disperses the oil to very fine droplets. The microorganisms present in seawater feed on these droplets , converting them into protein.
- \* Silver solvent is used successfully for cleaning tools, rigs, pipelines and platform from crude oil contamination.

### TOXICITY AND BIO DEGRABILITY

Tests were conducted according to the method reported by UNEP and recommended by EEA toxicity test of crud oil dispersed by Silver solvent to marine phytoplankton shrimp and fish were carried out.

### SHELF LIFE TIME (STORAGE)

Silver solvent has shelf life time exceeds 5 year under suitable storage conditions.

### packing

Silver solvent is supplied in plastic drums of 200 liters capacity, net weight 200 Kg and gross weight 210 Kg . the expire date is five years after the production date.

## SECTION : 6 HEALTH AND HANDLING

Silver solvent is considered a subcategory of\_detergent, so that it is not irritable . At any skin or face exposure should be washed by water several times .

### HANDLING

There is no problem to tackle silver solvent without wear protective glasses or rubber gloves . it can be removed by washing with water .

- \* If Silver solvent is spilled or released on metal or non metal surface, it can be washed by water only withn no problem.