

# BIOSANE BIO 2050 ED

## DEGREASING FLUID BASED ON VEGETAL DERIVATIVES

ODOURLESS  
 WITHOUT DANGER  
 FREE FROM VOC AND SOLVENT  
 COMPLETELY BIODEGRADABLE  
 LARGE COMPATIBILITY WITH MATERIALS  
 EMULSIBLE

### DESCRIPTION

BIOSANE BIO 2050 ED is a degreasing fluid formulated on derivatives of vegetal oils. It has been made to replace the petroleum extracts very often used in cleaning of maintenance, in fountain of degreasing in particular. It can also be used for operations of cleaning in production with processes of washing especially studied for a non volatile cleaning.

The petroleum extracts used in degreasing are not without risk for user's health, for the environment, and sometimes for the installations:

- ✓ neurological effects in the cases of too strong or too prolonged inhalations;
- ✓ responsible of occupational diseases (table n°84 of the occupational diseases);
- ✓ release of VOC (volatile organic compounds) subjected to limits of increasingly low emissions (European regulation);
- ✓ fire risk, sometimes high for naphthas with at low flash points.

These petroleum extracts, more or less elaborate, can also contain aromatic hydrocarbons and glycol ethers in order to reinforce their cleaning action, but that increases also their harmfulness.

*BIOSANE BIO 2050 ED proposes an alternative making safe for the installations, neutral for the environment, healthy for the users.*

BIOSANE BIO 2050 ED is a biotechnological fluid resulting from agrochemicals. Its components are vegetal oil derivatives recognized for their absence of toxicity. With a very high flash point (> 170°C), it does not release any flammable vapor in a very broad range of temperatures. Even heated up to 100°C approximately, it does not release any VOC and does not emit any dangerous vapor.

BIOSANE BIO 2050 ED also dissociates VOME (Vegetal Oils Methyl Esters), from now on very widespread in the field of degreasing. Like these products, it is completely biodegradable and without toxicological or environmental classification. But we went further with BIOSANE BIO 2050 ED:

✓ **High oxidation resistance:** VOME age badly and oxidize with the air while releasing slowly potentially harmful or irritating components. When they are used heated to increase the effectiveness of cleaning or to try to evaporate them, they are degraded even more quickly and leave sticking residues. BIOSANE BIO 2050 ED is resistant to oxidation, does not age, and can be evaporated completely and quickly out of furnace, without any carbonized residue, with 200°C or more.

✓ **Compatible with the majority of plastic materials and elastomers :** MVOE appear very aggressive with respect to paintings (slow blistering), to plastics (fissures) and rubbers (swelling, even slow dissolution). BIOSANE BIO 2050 ED was especially studied to remove these effects. It is compatible with a very great number of elastomers (NBR, Néoprène, Silicones, VITON, KALREZ...), plastics (PMMA, Polycarbonates, PVC, POM, Polyamides...) and paintings (PU, Epoxy...). It thus allows the cleaning and the degreasing of plastic parts or multi-materials (assembly of metal parts with resin parts, plastic, elastomer...).

Z.I. LA MASSANE - F 13210 ST-RÉMY DE PCE - TÉL : +33 4 90 92 74 70 - FAX : +33 4 90 92 32 32

# BIOSANE BIO 2050 ED

## DEGREASING FLUID BASED ON VEGETAL DERIVATIVES

### APPLICATION USE

BIOSANE BIO 2050 ED is usable with a rag, in degreasing fountain, by low pressure sprinkling, in tank of degreasing with or without mechanical agitation, at ambient temperature or heated. The use of ultrasonic waves as mechanical action is not appropriate (the ultrasonic waves bring a gain of effectiveness only to solvents with low boiling point).

BIOSANE BIO 2050 ED can be used pure or diluted with water. Used with water, allows to carry out stable emulsions lasting at least 8 hours at room temperature.

### PHYSICAL AND CHEMICAL PROPERTIES

| PROPERTY                     | VALUE                 | UNIT               |
|------------------------------|-----------------------|--------------------|
| Aspect                       | Clear liquid          |                    |
| Colour                       | Light yellow          |                    |
| Odour                        | Practically odourless |                    |
| Density at 25°C              | 0.86                  | Kg/L               |
| Freezing point               | <-20                  | °C                 |
| Boiling point at 1 atm       | 330                   | °C                 |
| Vapour pressure at 20°C      | <0.01                 | mbar               |
| Kinematic viscosity at 20°C  | 8.5                   | mm <sup>2</sup> /s |
| Kinematic viscosity at 40°C  | 5.5                   | mm <sup>2</sup> /s |
| Kinematic viscosity at 100°C | 2.0                   | mm <sup>2</sup> /s |
| Flash point, closed cup      | >170                  | °C                 |
| Auto-ignition point          | >250                  | °C                 |
| Lower limit of explosivity   | non explosible        | % (v/v)            |
| Upper limit of explosivity   | non explosible        | % (v/v)            |
| Iodine index                 | <10                   | g/100g             |
| Anisidine index              | 1.8                   | -                  |
| Acidity index                | 0.1                   | mgKOH/g            |
| VOC content                  | 0.0                   | % (m/m)            |
| Total hydrocarbons content   | 0.0                   | % (m/m)            |
| Chlorine content             | 0.0                   | % (m/m)            |
| Sulfur content               | 0.0                   | % (m/m)            |
| Phosphorus content           | 0.0                   | % (m/m)            |