

# SYNTRON INDUSTRIES PVT.LTD.

## Technical Data Sheet

Product Code : 1002  
Product Name : **SARCOTRON [O] Liquid**  
(N-OLEOYL SARCOSINATE)  
CAS NO. : 110-25-8

### **Description:**

**SARCOTRON [O] N-Oleoyl sarcosine** is an amphiphilic oleic acid derivative having a sarcosine head group (*N*-methylglycine) which is used as a water-in-oil emulsifier and corrosion inhibitor.

### **Properties:**

**SARCOTRON [O] N-Oleoyl sarcosine** is a clear, yellow to brown, viscous liquid, which is sparsely soluble in water and acts acidic. As long-chain *N*-acylamino acid, the surfactant is soluble in many organic solvents and in mineral oil. In the alkaline it dissolves well in water. Because of its carboxamide structure.

**SARCOTRON [O]** is chemically stable even at high pH values and strongly foaming as an anionic surfactant.

**SARCOTRON [O] N-Oleoyl sarcosine** possesses already at low concentrations very good rust protection properties (in particularly in combination with the imidazoline derivative 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol which also acts emulsifying and anticorrosive), also against non-ferrous metals such as aluminium and copper. Therefore, *N*-oleoyl sarcosine is added as a corrosion inhibitor and emulsifier to rust protection fluids and lubricating greases, fuels and lubricants and refrigerating lubricants such as drilling and cutting oils.

**SARCOTRON [O] N-oleyl sarcosine** is only slightly toxic and easily biodegradable

### **Application:**

**SARCOTRON [O]** The sarcosine head group of the long-chain amphiphilic *N*-acylamino acid is responsible for the formation of chelate-like structures in the adsorption on polar and charged surfaces, e.g. on metals.

### **Industry Uses :**

### **Industry Processing sector**

Corrosion Inhibitors and anti-scaling agent  
Finishing agent  
Fuels and fuel additives  
Lubricants and lubricant additives  
Antistatic treatment of fibres.

Paint and coating manufacturing  
Petrochemical manufacturing  
Petroleum lubricating oil and grease manufacturing  
Textile, apparel and leather manufacturing.

**SARCOTRON [O] N-Oleoyl sarcosine** is a mild surfactant which irritates skin and eyes comparatively little and is therefore used in personal care products such as skin cleansing agents because of its antimicrobial and virucidal properties.

### **Specification**

Parameter  
Appearance  
Color Number (Gardner)  
pH value( 1.0 %,10% IPA)  
Active Ingredient  
Free fatty acid (%)  
Viscosity (20°C,mPa·s)  
Density at 20° C.  
Acid Value (mgKOH/gm)  
Freezing point

### **Specification**

Value  
Yellow to brown clear liquid  
Max. 7  
3.0-5.0  
Min. 94 %  
Max. 6.0 %  
Max. 2600 mPas  
0.95 – 0.97  
153 – 163  
Below 0° C

**These values indicate typical specification, they are not intended to be used as product specifications.**

**Formula Guidelines Use level:**

Industrial lubricants (0.1 % - 0.3 %)

Grease (0.1 %-n0.5 %)

Rust preventive fluids (0.5 % - 1.0 %)

Metal Working fluids like cutting and grinding oils (0.05 % - 1.0 %)

Fuels (12 – 50 ppm)

Aerosol cans (Tin / Aluminium-plated cans, 0.1 % - 0.3 %)

**Storage & Handling** Normally safety precautions (i.e gloves & safety goggles) should be employed when handling **SARCOTRON [O] Liquid** Contact with the eyes and prolonged contact with the skin should be avoided. It is recommended that **SARCOTRON [O] Liquid** be stored in sealed carbouy and kept in a cool, dry place. Store away from oxidizing agent and acid

**Work place Exposure** Occupational exposure can occur primarily through skin contact or via inhalation of vapour and mist. Engineering controls, personal protective equipment and other work place practices should be used to control these exposures

**Note** It is the responsibility of the formulator to review the chemical control regulations where the end product is intended to be sold or used.

**Additional Safety Information** Details available in Material Safety Data Sheet

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