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## Technical Information

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February 2016

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WF-No. 7943

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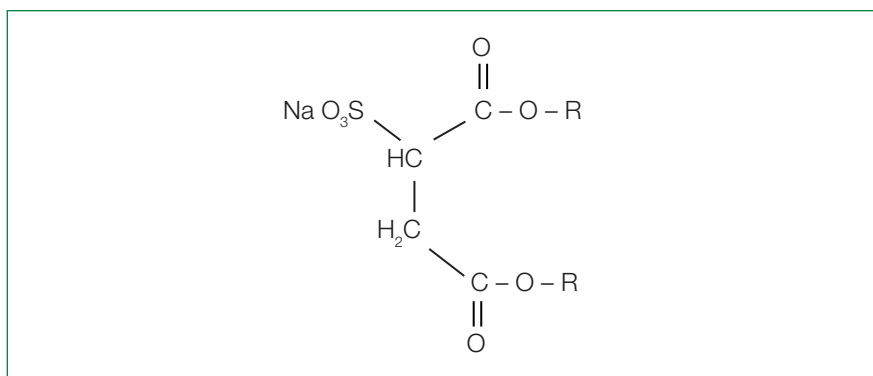
® = Registered trademark of BASF  
in many countries.

# Disponil® SUS IC 875

**Anionic surfactant for use in the chemical-technical industry and emulsion polymerization.**

**Chemical nature**

Disponil® SUS IC 875 5 is a di-isooctyl sulfosuccinate, sodium salt with excellent wetting properties.



R = 2-ethylhexyl

**PRD-No.\***

30529336

\* BASF's commercial product numbers.

**Appearance**

Disponil® SUS IC 875 is a colorless liquid.

**Handling and Storage****Handling**

- The product should be stored in a dry place at max. 30 °C.
- The product is not damaged by frost.
- Containers of packed material should not be kept open, as the solvent may evaporize which causes the product to form a skin on top. This layer is easily dissolved by stirring.
- If the product is stored in heated tanks, constant gentle stirring helps to prevent local overheating caused by prolonged contact with electrical elements or external heating coils.
- Please refer to the latest Safety Data Sheet for detailed information on product safety.

**Materials**

The following materials can be used for tanks and drums:

- HDPE
- Stainless steel 1.4401
- Stainless steel 1.4541
- Stainless steel 1.4571

**Shelf life**

Disponil® SUS IC 875 has a shelf life of at least 12 months in its sealed original packaging, provided it is stored properly.

## Properties

Some physical properties are listed in the table below. These are typical values only and not all of them are monitored on a regular basis. They are correct at the time of publication and do not necessarily form part of the product specification. A detailed product specification is available on request or via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).

Disponil® SUS IC 875	Unit	Value
Physical form (23 °C)		liquid
Dry residue (internal method 000442)	%	~ 75
Sodium sulfate (DGF H-III 8A)	%	~ 0.4
Bis (2-Ethylhexyl) maleat (internal method 008470)	%	~ 0.03
pH value (EN 1262, 10%)	%	~ 6.6
Critical Micelleformation Concentration, CMC (ISO 4311)	g active substance/l	~ 1

## Solubility

Disponil® SUS IC 875 is soluble in water with limitations, only.

## Application

Disponil® SUS IC 875 is a very good wetting agent with only a medium tendency of foam formation in aqueous solutions or in polymer emulsions. The strong reduction of the surface tension of aqueous solutions even at low concentrations make Disponil® SUS IC 875 an ideal surface active agent.

Disponil® SUS IC 875 is just slightly water soluble. The water solubility may be increased by the addition of a small amount of a solubilizer. Dilution of the product with water is possible up to a certain extent, but liquid-crystalline gel phases may occur at concentration ranges about 50% active matter. In order to dilute the product it is recommended to add the product to the water phase.

Disponil® SUS IC 875 is used as wetting agent in aqueous coatings, adhesives, printing inks and related systems. On account of its good wetting properties it is particularly suitable for difficult-to-wet substrates such as plastic and metal surfaces, cellulose film, aluminium and plastic foils, silicone treated papers or glass.

In emulsion polymerization processes Disponil® SUS IC 875 may be used for practically all types of monomers.

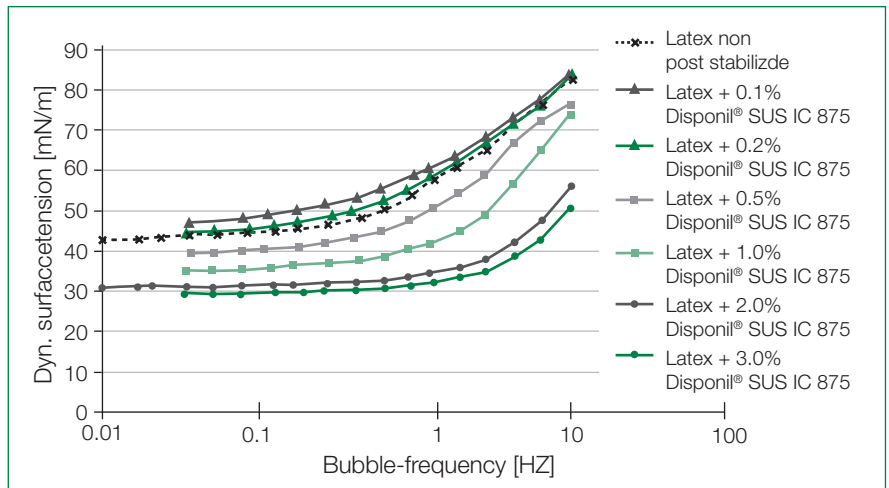
The polymer emulsions stabilized by means of Disponil® SUS IC 875 excel by their very good wetting properties.

If outstanding wetting properties of a dispersion must be combined with high mechanical stability, we recommend to use Disponil® SUS IC 875 in combination with our high ethoxylated nonionic surfactants of the Disponil® A-, AFX-, NRG-, or Emulan® TO-types.

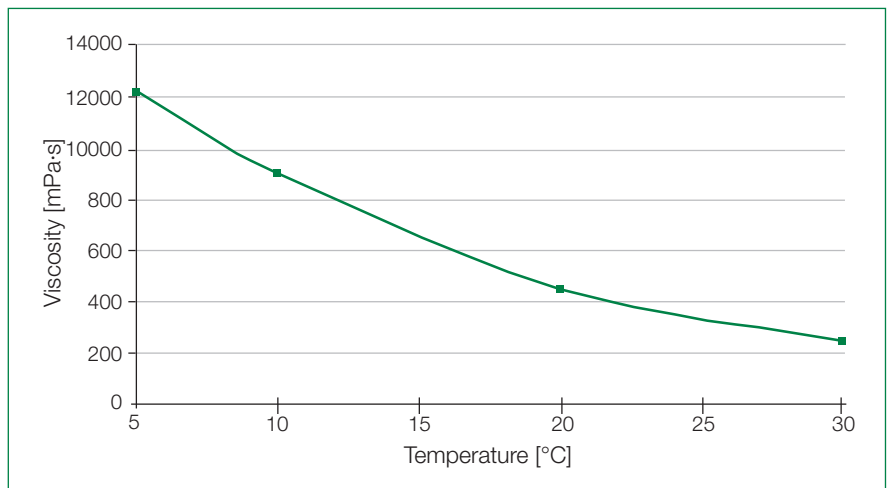
In order to use it as a stabilizer with strong wetting properties, the usual dosage is in the range of 0.1 – 1.0% active ingredient, calculated on the final coating.

For polymerization the amount required depends on the type and quantity of starting monomers, the production method and the desired properties of the polymer dispersion. Generally the amount is in between 1% and 3% active ingredient, calculated on the monomer content.

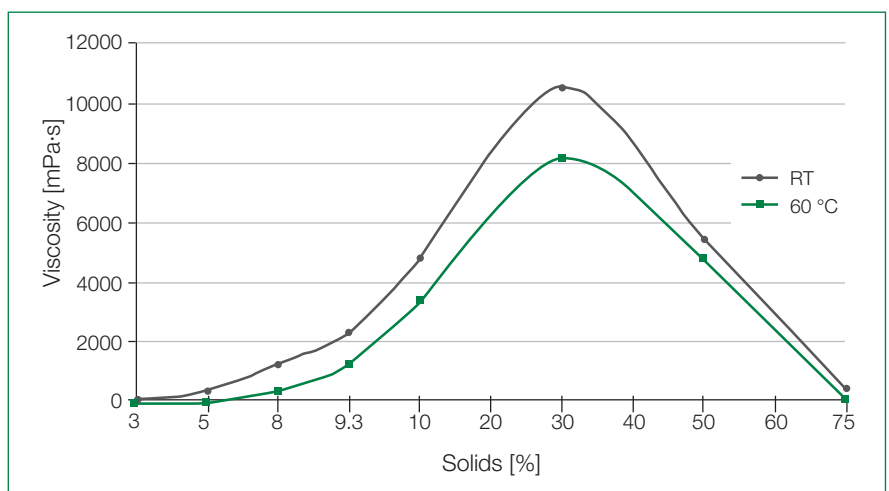
Influence of different additions of Disponil® SUS IC 875 on the dynamic surface tension of a styrene acrylic latex:



Viscosity of Disponil® SUS IC 875 in dependance of temperature:



Viscosity of Disponil® SUS IC 875 in dependance of active substance:



**Safety**

We are not aware of any ill effect that can result from using Disponil® SUS IC 875 for the purpose for which it is intended and from processing it in accordance with current practices.

According to the experience that we have gained over many years and other information at our disposal, Disponil® SUS IC 875 does not exert harmful effects on health, provided it is used properly, due attention is given to the precautions necessary for handling chemicals, and the information and advice given in our Safety Data Sheets are observed.

**Labelling**

Please consult the current Safety Data Sheets for information on the classification and labelling of our products and other information relevant to safety.

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