

## Mersolat H<sup>®</sup>

Secondary Alkane Sulfonates (SAS) as raw material for textile processing chemicals, leather auxiliaries, detergents, cleaning products and as an auxiliary for the manufacture and stabilisation of emulsions. It is used primarily on the emulsion polymerisation of vinyl chloride, acrylonitrile, butadiene, styrene, acrylates and other monomers.

<b>Chemical composition</b>	sodium alkane sulfonate
<b>CAS Reg. No.</b>	68188-18-1
<b>Health and safety information</b>	Relevant safety data and references as well as possibly warning labels are to be found in the corresponding data sheets.
<b>Labelling required by law</b>	Mersolat H <sup>®</sup> is not classed as dangerous cargo according to the regulations on dangerous goods transport, but is still subject to labelling according to German and EU legislation on hazardous substances owing to irritant properties to skin and eyes. Irritant Xi, R 36/38.

### Product description

Form supplied	MSDS No.	Description
Mersolat H95	011693	White to pale yellow flakes with a weak characteristic odour
Mersolat H68	011316	Pump-able, white to pale yellow paste with a weak characteristic odour
Mersolat H40	013114	Clear, pale yellow liquid with a weak characteristic odour
Mersolat H30	012355	Clear, pale yellow liquid with a weak characteristic odour

### Specified Properties

		H95	H68	H40	H30
Active substance (differential method)	min.	95.0 %	67.0 %	39.0 %	29.0 %
Sodium chloride	max.	3.5 %	2.6 %	1.5 %	1.2 %
Neutral oil	max.	1.0 %	0.7 %	0.4 %	0.3 %
pH value <sup>1)</sup>		8.0– 10.5	8.0– 10.5	8.0– 10.5	8.0– 10.5
Water (Karl Fischer)	max.	1.2 %	30.0 %	59.5 %	69.5 %
Iodine Number g l/ 100g	max.	0.10	0.10	0.10	0.10
Appearance		conforms with product description			

PLASTIC ADDITIVES



<sup>1)</sup> in 30% aqueous solution, calculated for anhydrous product

Specification values are subjected to constant monitoring.

## Characteristic data

		H95	H68	H40	H30
Monosulfonate	approx.	83 %	57 %	33 %	25 %
Di- and polysulfonates	approx.	12 %	10 %	6 %	4 %
Sodium sulfate	approx.	0.1 %	0.1 %	0.1 %	0.1 %
Viscosity (Höppler; mPa.s)	approx.	-	-	80-160	15

The product is biodegradable as defined in § 1 of the Waschmittelgesetz (detergent legislation) of August 20, 1975.

## Storage

If correctly stored and kept in the original sealed package, the self life is at least 2 years. Mersolat H<sup>®</sup> 95 is sensitive to moisture and must therefore always be kept in its tightly sealed original container in a cool, dry place protected from light. Mersolat H<sup>®</sup> 68 tends to separate and should be homogenized during storage regular and before used. To prevent turbidity and separation, Mersolat H<sup>®</sup> 40

and Mersolat H<sup>®</sup> 30 should not be stored at temperatures below 20° C.

## Packaging

Road tanker: H68, H40 , H30  
 IBC (1.000kg): H30, H40  
 Big Bag (variable): H95  
 Drum (120kg): H40 , H30  
 Plastic bag (20kg): H95

## General Properties/ Application

Mersolat H<sup>®</sup> can be used as an anionic surfactant for the production of liquid and highly-concentrated paste – like detergents and wetting agents for the textile and leather industry as well as of alkaline an acid industrial cleansers, disinfectant cleansers and household detergents and cleaning agents, as an anionic emulsifier for the emulsion polymerisation of acrylonitrile, butadiene, styrene, acrylates, vinyl chloride, other monomers and their mixtures. This is

particularly the case for the manufacture of ABS. Mersolat H<sup>®</sup> used as a polymerisation emulsifier typically gives the finished polymer a good antistatic effect. Because of its outstanding emulsifying properties, Mersolat H<sup>®</sup> is suitable for use in the processing of synthetic lattices, natural lattices and acrylate dispersions. Even small addition rates (0.2-2.0%) allow the production of high percentage plastic dispersions (45-50%) with a high stability. Mersolat H<sup>®</sup> is comparatively stable against acids, alkali and electrolytes.

## Physical data

Surface tension (according to DIN 53515)

0.01 % active substance	44.5mN/m
0.1 % active substance	34.9mN/m
1.0 % active substance	30.9mN/m

Viscosity (20°, Hoeppler viscometer)

0.5% active substance	approx. 1mPas
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25 % active substance	approx. 5mPas
30 % active substance	approx. 15mPas
Critical micelle-forming concentration:	0.4g active ingredient/l
HLB value:	11-12
Solubility in distilled water:	At 20°C approx. 40% active substance
Solubility in solvents:	low in alcohol, minimal in non-polar organic solvents

*Characteristic data provide further information about the product and are not subject to constant monitoring. They are therefore not binding.*

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Mersolat H®

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Lanxess Deutschland GmbH, D-51369 Leverkusen  
Functional Chemicals High Performance Additives Plastic Additives

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