

# Technical data sheet

## ALBERDINGK® 12-HSA Flakes 51

### Characteristic:

12-Hydroxy Stearic Acid (12-HSA) is a wax-like odourless substance usually used in form of cream-coloured or white flakes or powder. It is derived from Castor Oil (extracted from the seeds of "Ricinus communis L.") by hydrogenation and hydrolysis. The content of 12-HSA in the fatty acid of hydrogenated Castor oil is about 83-90%.

### Specification:

Acid value	mg KOH/g	min. 175	AOCS Cd 3d-63
Gardner colour value		max. 3	AOCS Td 1a-64
Iodine value acc. to Wijs	g Iod/100g	max. 3	AOCS Cd 1d-92
Hydroxyl value	mg KOH/g	min. 157	AOCS Cd 13-60
Melting point	°C	min. 73	AOCS Cc 1-25
Saponification value	mg KOH/g	min. 180	AOCS Cd 3-25
Nickel content	ppm	max. 1	ISO 17294-2/ISO 11885
12-HSA content	%	min. 83	calculated from OHV/AV

### According to:

### Applications:

12-Hydroxy Stearic Acid is widely used in the production of glycerine-free multi-purpose calcium and lithium lubricating greases. Lubricating greases produced out of 12-HSA exhibit excellent resistance to oils and fats, water and solvents and they endue a long-life stability. Besides the application in the lubricating sector, 12-HSA is an important raw material in the production of thixotropic agents for solvent-based coating systems. The production of solvent or waterborne polyesters for paints and the manufacture of wax blends and hotmelt adhesives as well as the use as a processing aid for natural and synthetic rubber are further application fields. Another important field is the use of 12-HSA in cosmetics such as deodorants.

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### Properties:

12-Hydroxy Stearic Acid is a saturated C18-fatty acid. It is suitable for various chemical derivatization due to the carboxyl as well as the hydroxyl functionality.

### Storage:

When stored in tightly sealed packaging, protected from light and at temperatures from + 10 °C to + 30 °C, the specification parameters remain stable for at least 12 months from the production date.

### Safety:

For further information on product safety please refer to the current safety data sheet.

### Notice:

\* General information - the values can not be considered as part of the product specification.