

TECHNICAL DATA SHEET

Alipure[®] (solvent-free alpha-Lipoic Acid)

CHARACTERISTICS: Alipure[®] is a fine, yellow powder derived from chemical synthesis, nearly insoluble in water. Moderate caking is product-specific and not a sign of declining product quality. This Dietary Supplement is used as a powerful anti-oxidant.

COMPOSITION: Alipure[®] is free of organic solvents, produced under a patent pending manufacturing process. The product is combined with 2 % of a free flowing agent.

Formula	C ₈ H ₁₄ S ₂ O ₂
CAS-No.	1077-28-7
Molecular weight	206.3 g/mol
Status	
EINECS (EU)	214-071-2
MITI (Japan)	9-817
TSCA (USA)	Exempt: Regulated as Dietary Supplement

SPECIFICATION:	Alpha-Lipoic Acid	min. 97 %	(typically 99 %)
	Epi-Lipoic Acid	max. 0.1 %	(typically 0.02 %)
	Polymers	max. 2.0 %	(typically < 1.0 %)
	Moisture	max. 0.5 %	(typically 0.2 %)

REGULAR CONTROL:	<u>Organic solvents</u>	not detectable
	<u>Heavy metals</u>	
	Hg	max. 0.10 ppm (typically < 0.05 ppm)
	Cd	max. 1 ppm (typically < 0.1 ppm)
	Pb	max. 1 ppm (typically < 0.1 ppm)
	As	max. 1 ppm (typically < 0.1 ppm)

Office Germany: AlzChem AG, Dr. Albert-Frank-Straße 32, 83308 Trostberg, Germany
Phone +49 8621/86-0, Fax +49 8621/86-2911

Office USA: AlzChem LLC, 650 Village Trace, Bldg #20, Marietta, Georgia 30067, USA
Phone +1 770-804-0371, Fax +1 770-804-0375

This information and all technical and other advice are based on AlzChem's present knowledge and experience. However, AlzChem assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. AlzChem reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. ALZCHEM DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF ALZCHEM IS AWARE OF SUCH PURPOSE), OR OTHERWISE. ALZCHEM SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

TECHNICAL DATA SHEET

Page 2/2

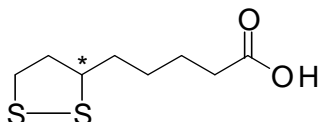
Microbiological data

Total aerobic plate count	max.	1000 / g
Yeasts and moulds	max.	50 / g
Coliforms	negative	/ g
Staphylococcus aureus	negative	/ g
Salmonella sp.	negative	/ 25 g

PROPERTIES: (physico-chemical)

Consistency: powder
Bulk density: typically 350 ± 50 g/l

CHEMICAL STRUCTURE:



STORAGE CONDITIONS: (keeping quality)

Alipure® should be stored in the dark, dry at cool to room temperature.

SHELF LIFE:

Shelf life is 48 months from date of manufacture if stored under suggested conditions. Material is sensitive to light.

PACKAGING:

Plastic drums with inner PE bag containing 10 kg net.

Office Germany: AlzChem AG, Dr. Albert-Frank-Straße 32, 83308 Trostberg, Germany
Phone +49 8621/86-0, Fax +49 8621/86-2911

Office USA: AlzChem LLC, 650 Village Trace, Bldg #20, Marietta, Georgia 30067, USA
Phone +1 770-804-0371, Fax +1 770-804-0375

This information and all technical and other advice are based on AlzChem's present knowledge and experience. However, AlzChem assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. AlzChem reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. ALZCHEM DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF ALZCHEM IS AWARE OF SUCH PURPOSE), OR OTHERWISE. ALZCHEM SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

Edition: January 2015 (Provided that a new edition is published this data sheet loses its validity)