## Sasol-Huntsman

## **PRODUCT INFORMATION**

## **MALEIC ANHYDRIDE (MA)**



Owing to its high reactivity, maleic anhydride has become an important raw material and intermediate for a large number of applications. For example, tetrahydrophthalic anhydride is accessible by Diels-Alder reaction. Alkenyl succinic anhydrides are formed by ene reactions. Semi- or diesters are obtained by reaction with alcohols, while reactions with amines will yield amides or imides. Sulfosuccinic acid derivatives are produced by sulfonation. Maleic anhydride is thus widely used as a starting material for the production of adhesives, surfactants, insecticides, herbicides, fungicides, and as a cross-linking component for many applications.

**Liquid** maleic anhydride is supplied in tank trucks or containers. **Solid** maleic anhydride can be supplied upon request.

min.	max.	Dimension	Test Method
99.7 99.5	20	% %	M 612* M 612* ASTM D 3366 ASTM D 1493
	99.7	99.7 99.5 20	99.7 % 99.5 % 20

<sup>\*</sup> In-house test method; will be provided on request.

The sales specifications stated herein are regularly checked, documented and filed. The additional characteristics given for your information are not routinely checked. In principle, conformity with our sales specification will also mean compliance with the other product characteristics specified herein.

Sasol-Huntsman GmbH & Co. KG Roemerstrasse 733, 47443 Moers

sasol.huntsman@de.sasol.com Phone: +49 2841 49 2513/18 Fax: +49 2841 49 2509

Additional Charact	eristics	Test Method		
Free acid as maleic acid (liquid form) Free acid as maleic acid (solid form) Ash content Iron content		max 0.3 % ASTM D 2930 max 0.5 % ASTM D 2930 max 0.001 % ASTM D 482 max 1 mg/kg ASTM D 1068		
Characteristics				
Boiling point Explosion limits in air Flash point Evaporation enthalpy (54.9℃) Heat capacity (cP) at constant pressure (25℃)		200 °C 1.4 – 7.1 Vol-% 100 – 110 °C (MA molten) 157.2 kJ/kmol 196.8 kJ/kmol.K		
Surface tension (52. Vapour pressure (52 Dynamic viscosity (6 Ignition temperature Melting point	2.9 ℃)	39.9 mN/m (MA molten) 2.8 hPa 1.61 mPa·s 475 °C 53 - 58 °C		
Safety				
Signal word: Hazard statements:  Precautionary Statements:	Danger s: H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H372 Causes damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled. H373 May cause damage to organs (Kidney) through prolonged or repeated exposure. P260 Do not breath dust/ fume/ gas/ mist/ vapours/ spray. P208 Wear protective clothing/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P342 +P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/ physician.			
Additional info: TLV LD50 (oral, rat)	EUH071 Corrosive to the respiratory tract. 0.1 ppm = 0.41 mg/m <sup>3</sup> 1090 mg/kg			

For more detailed information on product safety, please refer to material safety data sheet.

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The data contained herein are given to the best of our current knowledge and experience. However, in view of the great variety of possible applications any particular properties of our products or their suitability for any particular use cannot be guaranteed by the information given herein. Within the limits of our General Business Conditions, the quality of our products is warranted. Due account has to be taken of any existing industrial property rights.