



Responsible Care  
Verantwortliches Handeln

Metall-Chemie GmbH & Co. KG – Postfach 10 44 03 – D-20030 Hamburg

Ein Unternehmen mit Qualitätsmanagement-System

## ASC-plus

<b>Product description:</b>	ASC-plus is an arylsulfonamido carboxylic acid White powder Approx. 75% active ingredient, approx. 25% water			
<b>CAS:</b>	78521-39-8			
<b>EINECS:</b>	278-934-5			
<b>Packaging:</b>	25 kg net bags on palettes at 875 kg 500 kg net bags			
<b>To be formulated with:</b>	Triethanolamine			
<b>Typical use and application:</b>	<ul style="list-style-type: none"> <li>• Corrosion Inhibitors for water based formulations</li> <li>• All types of water based lubricants and functional fluids 0.2 - 2.5%</li> <li>• Metal working fluids (semi-synthetic and synthetic)</li> <li>• Biodegradable water based hydraulic fluids (HFS)</li> </ul>			
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>• Dust-free corrosion inhibitor for safe and clean handling</li> <li>• Offers low foaming tendency and exceptional hard water stability</li> <li>• Does not form resinous films or tars on metal surfaces</li> <li>• ASC-plus can be used as corrosion inhibitor for multimetal systems like ferrous surfaces, ferrous alloys and cast iron</li> <li>• Very good compatibility with other corrosion inhibitors</li> <li>• Excellent biodegradability, classified to the lowest grade</li> <li>• Aquatic Toxicity Chronic 4 (equals former Water Hazard Class 1 in Germany), low water hazard</li> </ul>			
<b>Listed in national inventory of chemical substances:</b>	USA	TSCA	South Korea	ECL
	Europe	EINECS	Canada	DSL
	China	IECS		
<b>Reach status:</b>	Registration planned for 2013; MC serves as REACH Lead registrant			

*METALL-CHEMIE GMBH & Co. KG*

The material safety data sheet contains the complete information about the characteristics, application, storing, first-aid-measurement, transport and proper disposal. For receiving the MSDS please contact Mrs. Schöttler ([schoettler@metall-chemie.com](mailto:schoettler@metall-chemie.com)).



Metall-Chemie GmbH &amp; Co. KG – Postfach 10 44 03 – D-20030 Hamburg

Responsible Care  
Verantwortliches Handeln

Ein Unternehmen mit Qualitätsmanagement-System

## ASC plus TEA

<b>Product description:</b>	ASC plus TEA is a liquid, active form of ASC plus, containing the triethanolamine salt of ASC plus			
<b>CAS / EINECS:</b>	93981-14-7 / 301-097-5			
<b>Packaging:</b>	Drums and IBC (1000l)			
<b>Performance:</b>	Grade 0 (DIN 51360/2) Stock solution, 2% in water (40 parts of ASC plus, 58 parts of Triethanolamine and 2 parts of H <sub>2</sub> O)			
<b>Typical use and application:</b>	<ul style="list-style-type: none"> <li>• Corrosion Inhibitor for water based lubricants and functional fluids. Typical dosage: 0.2 – 2.5%</li> <li>• Metal working fluids (semi-synthetic and synthetic)</li> <li>• Wire drawing</li> <li>• Biodegradable water based hydraulic fluids (HFS)               <ul style="list-style-type: none"> <li>- Off shore and in high pressure applications</li> </ul> </li> </ul>			
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>• Ashfree corrosion inhibitor for multimetal systems</li> <li>• Very good compatibility with other corrosion inhibitors</li> <li>• Aquatic Toxicity Chronic 4 (equals former Water Hazard Class 1 in Germany), low water hazard</li> </ul>			
<b>Listed in national inventory of chemical substances:</b>	USA	TSCA	Canada	DSL
	Europe	EINECS	Japan	ENCS
	Korea	ECL		
	China	IECSC		
<b>Reach status:</b>	Registration as ASC plus planned for 2013; MC serves as REACH Lead registrant			

*METALL-CHEMIE GMBH & Co. KG*

The material safety data sheet contains the complete information about the characteristics, application, storing, first-aid-measurement, transport and proper disposal. For receiving the MSDS please contact Mrs. Schöttler ([schoettler@metall-chemie.com](mailto:schoettler@metall-chemie.com)).



Metall-Chemie GmbH &amp; Co. KG – Postfach 10 44 03 – D-20030 Hamburg

Responsible Care  
Verantwortliches Handeln

Ein Unternehmen mit Qualitätsmanagement-System

## TC 50

<b>Product description:</b>	TC 50 is an organic polycarboxylic acid White powder 50% active ingredient, 50% water			
<b>CAS / EINECS:</b>	80584-91-4 / 279-505-5			
<b>Packaging:</b>	25 kg net bags on pallets at 875 kg			
<b>To be formulated with:</b>	KOH, Alkanolamines			
<b>Performance:</b>	Grade 0 (DIN 51360/2) Stock solution, 2% in water (50 parts of TC50 and 50 parts of Triethanolamine)			
<b>Typical use and application:</b>	<ul style="list-style-type: none"> <li>• Corrosion Inhibitor for water based lubricants and functional fluids. Typical dosage: 0.25 - 1.1%</li> <li>• Metal working fluids (semi-synthetic and synthetic) <ul style="list-style-type: none"> <li>- Cutting and grinding fluids</li> </ul> </li> <li>• Biodegradable water based hydraulic fluids (HFS)</li> </ul>			
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>• Ashfree corrosion inhibitor for multimetal systems</li> <li>• Extremely low foaming tendency and excellent air release</li> <li>• Very good compatibility with other corrosion inhibitors</li> <li>• Aquatic Toxicity Chronic 4 (equals former Water Hazard Class 1 in Germany), low water hazard</li> </ul>			
<b>Listed in national inventory of chemical substances:</b>	USA	TSCA	South Korea	ECL
	Europe	EINECS	Philippines	PICCS
	Australia	AICS	Canada	DSL
	China	IECSC	Japan	ENCS
<b>Reach status:</b>	Registration planned for 2013; MC serves as REACH Lead registrant			

*METALL-CHEMIE GMBH & Co. KG*

The material safety data sheet contains the complete information about the characteristics, application, storing, first-aid-measurement, transport and proper disposal. For receiving the MSDS please contact Mrs. Schöttler ([schoettler@metall-chemie.com](mailto:schoettler@metall-chemie.com)).



Metall-Chemie GmbH &amp; Co. KG – Postfach 10 44 03 – D-20030 Hamburg

Responsible Care  
Verantwortliches Handeln

Ein Unternehmen mit Qualitätsmanagement-System

## TC 65

<b>Product description:</b>	TC 65 is an organic polycarboxylic acid Free floating white granules 65% active ingredient, 35% water			
<b>CAS:</b>	80584-91-4			
<b>EINECS:</b>	279-505-5			
<b>Packaging:</b>	25 kg net bags on paletts at 750 kg			
<b>To be formulated with:</b>	KOH, Alkanolamines			
<b>Typical use and application:</b>	<ul style="list-style-type: none"> <li>• Corrosion Inhibitors for water based formulations</li> <li>• All types of water based lubricants and functional fluids 0.25 – 1.1%</li> <li>• Metal working fluids (semi-synthetic and synthetic)</li> <li>• Biodegradable water based hydraulic fluids (HFS)</li> </ul>			
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>• Ashfree corrosion inhibitor for multimetal systems</li> <li>• Offers an extremely low foaming tendency and excellent air release</li> <li>• Does not form resinous films or tars on metal surfaces</li> <li>• Free of boron and nitrite additives</li> <li>• Very good compatibility with other corrosion inhibitors</li> <li>• Compatible to hard water</li> <li>• No tendency to form nitrosamine</li> <li>• Excellent biodegradability, classified to the lowest grade Aquatic Toxicity Chronic 4 (equals former Water Hazard Class 1 in Germany), low water hazard</li> </ul>			
<b>Listed in national inventory of chemical substances:</b>	USA	TSCA	South Korea	ECL
	Europe	EINECS	Philippines	PICCS
	Australia	AICS	Canada	DSL
	China	IECSC		
<b>Reach status:</b>	Registration planned for 2013; MC serves as REACH Lead registrant			

*METALL-CHEMIE GMBH & Co. KG*

The material safety data sheet contains the complete information about the characteristics, application, storing, first-aid-measurement, transport and proper disposal. For receiving the MSDS please contact Mrs. Schöttler ([schoettler@metall-chemie.com](mailto:schoettler@metall-chemie.com)).



Metall-Chemie GmbH &amp; Co. KG – Postfach 10 44 03 – D-20030 Hamburg

 Responsible Care  
 Verantwortliches Handeln  
 Ein Unternehmen mit Qualitätsmanagement-System

## TC 85

<b>Product description:</b>	TC 85 is an organic polycarboxylic acid Free floating white granules 85% active ingredient, 15% water			
<b>CAS:</b>	80584-91-4			
<b>EINECS:</b>	279-505-5			
<b>Packaging:</b>	20 kg net bags on paletts at 600 kg 250 kg net big bags on paletts at 500 kg 500 kg net big bags on palett			
<b>To be formulated with:</b>	KOH, Alkanolamines			
<b>Typical use and application:</b>	<ul style="list-style-type: none"> <li>• All types of water based lubricants and functional fluids (typical dosage 0.25 – 1.1%)</li> <li>• Metal working fluids (semi-synthetiv and synthetiv)</li> <li>• Biodegradable water based hydraulic fluids (HFS)</li> </ul>			
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>• Ashfree corrosion inhibitor for multimetal systems</li> <li>• Offers an extremely low foaming tendency and excellent air release</li> <li>• Does not form resinous films or gums on metals</li> <li>• Free of boron and nitrite additives</li> <li>• Very good compatibility to other corrosion inhibitors</li> <li>• Unique active ingredient of 85% enables a lower input in terms of volume</li> <li>• Compatible to hard water</li> <li>• No tendency to form nitrosamine</li> <li>• Excellent biodegradability, classified to the lowest grade</li> <li>• Aquatic Toxicity Chronic 4 (equals former Water Haszard Class 1 in Germany), low water hazard</li> </ul>			
<b>Listed in national inventory of chemical substances:</b>	USA	TSCA	South Korea	ECL
	Europe	EINECS	Philippines	PICCS
	Australia	AICS	Canada	DSL
	China	IECSC		
<b>Reach status:</b>	Registration planned for 2013; MC serves as REACH Lead registrant			

*METALL-CHEMIE GMBH & Co. KG*

The material safety data sheet contains the complete information about the characteristics, application, storing, first-aid-measurement, transport and proper disposal. For receiving the MSDS please contact Mrs. Schöttler ([schoettler@metall-chemie.com](mailto:schoettler@metall-chemie.com)).



Metall-Chemie GmbH &amp; Co. KG – Postfach 10 44 03 – D-20030 Hamburg

Responsible Care  
Verantwortliches Handeln

Ein Unternehmen mit Qualitätsmanagement-System

## TC TEA

<b>Product description:</b>	TC TEA is a liquid, active form of TC, containing the triethanolamine salt of TC 50			
<b>CAS / EINECS:</b>	80584-92-5 / 279-506-0			
<b>Packaging:</b>	Drums and IBC (1000l)			
<b>Performance:</b>	Grade 0 (DIN 51360/2) Stock solution, 2% in water (50 parts of TC50 and 50 parts of Triethanolamine)			
<b>Typical use and application:</b>	<ul style="list-style-type: none"> <li>• Corrosion Inhibitor for water based lubricants and functional fluids. Typical dosage: 0.25 - 1.1%</li> <li>• Metal working fluids (semi-synthetic and synthetic) <ul style="list-style-type: none"> <li>- Cutting and grinding fluids</li> </ul> </li> <li>• Biodegradable water based hydraulic fluids (HFS)</li> </ul>			
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>• Ashfree corrosion inhibitor for multimetal systems</li> <li>• Extremely low foaming tendency and excellent air release</li> <li>• Very good compatibility with other corrosion inhibitors</li> <li>• Aquatic Toxicity Chronic 4 (equals former Water Hazard Class 1 in Germany), low water hazard</li> </ul>			
<b>Listed in national inventory of chemical substances:</b>	USA	TSCA	Canada	DSL
	Europe	EINECS	Japan	ENCS
	Australia	AICS		
	China	IECSC		
<b>Reach status:</b>	Registration as TC planned for 2013; MC serves as REACH Lead registrant			

*METALL-CHEMIE GMBH & Co. KG*

The material safety data sheet contains the complete information about the characteristics, application, storing, first-aid-measurement, transport and proper disposal. For receiving the MSDS please contact Mrs. Schöttler ([schoettler@metall-chemie.com](mailto:schoettler@metall-chemie.com)).