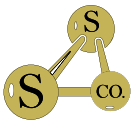


Reliable Additives.
Custom Solutions.
Trusted Partner.





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Product Overview

Product	CAS-No.	Typical Treat Rate in Lubricants	Physical Form		
			Medium	Biodegradable	
ASC plus®	78521-39-8	0.2 - 2.5%			
TC® 50/65/85	80584-91-4	0.25 - 1.1%			
MC TPPT	597-82-0	0.2 - 3.0% (<0.5% wt/wt for HX-1 appl.)			
MC 145	68140-98-7	3.0 - 5.0%			
MC 155	939-424-4 (EC)	1.0 - 7.0%			
MC 200	1072-71-5	0.1 - 1.0%			
MC 209	91648-65-6	>1.0% EP/AW 0.1 - 0.5% Cu Passivator			
MC 222	59656-20-1	1.0 - 2.5% in Grease 0.1 - 0.5% Cu Passivator			
MC 254	68515-88-8	1.0 - 10%			
MC 255	68511-50-2	1.0 - 2.5%			
MC 401	939-505-4	1.0 - 3.0%			
MC 450	64051-29-2	0.25 - 3.0%			
MC 511	126019-82-7	0.5 - 2.0%			
MC 1030	Blend	0.15 - 1.0%			
MC 1500	Blend	0.25 - 4.0%			
MC Mecyrat® M	37640-57-6	2.0 - 4.0%			
MC Mecyrat® P	218768-84-4	1.5 - 4.0%			

Functions		
Corrosion Inhibitor	EP / AW Additive	Metal Deactivator

Applications											
High Temperature	Metal Working Fluids	Hydraulic Fluids	Coolants	Transmission Fluids	Compressor Oil	Engine Oil	Gear Oil	Grease	Cleaning Solution	Adhesives & Sealants	Paints & Coatings

- solid
- fluid
- water
- oil
- grease
- biodegradable
- Corrosion Inhibitors
- EP / AW Additives
- Metal Deactivator

■ ASC plus®

Biodegradable organic carboxylic acid derivative used as ashless and amine-free corrosion inhibitor for water-based lubricants (semi-synthetic and synthetic), hydraulic fluids, metal working fluids, off-shore/high pressure applications. ASC plus® is hard water stable, with low foaming tendency.

■ TC® 50/65/85

Biodegradable organic polycarboxylic acid, that has a long history of reliable performance in the industry as an effective ashless corrosion inhibitor for aqueous alkaline media. It protects multi-metal systems in semi-synthetic and synthetic hydraulic fluids, industrial cleaners, and metalworking fluids. Fully compatible with other common inhibitors, it offers excellent stability, extremely low foaming, rapid air release, and low water hazard classification – combining long-standing reliability with environmental responsibility.

■ MC TPPT

Organic thiophosphate, ashless AW-additive for lubricants, greases and hydraulic fluids, compressor- and engine lubricants with excellent thermal stability, no corrosion on yellow metal and low odour. It is also FDA approved for the use in the food industry, NSF HX-1 as well as Kosher and Halal certified.

■ MC 145

Oxazoline derivative derived from sustainable resources, serving as an ashless corrosion inhibitor and booster in lubricating oils and greases. It also acts as an emulsion stabiliser and non-ionic surfactant, with applications in metal cleaners, pulp and paper processing, textiles, pigment grinding, and pigment dispersion.

■ MC 155

Biodegradable additive from renewable resources. Multifunctional additive acts as corrosion inhibitor, emulsifier, hydro-trope and lubricity enhancer. Typical applications include metal working fluids and other types of lubricants. Enhances the stability of emulsions and solutions.

■ MC 200

■ Coolant and ashless EP/AW additive in metal working processes. MC 200 functions as metal deactivator with low ash content and low-dust formation. It acts as an intermediate for pharmaceuticals, dyes, chelating agent for metal analysis, flame and scorch retardant products, for purification in wastewater treatment and much more.

■ MC 209

■ Alkylated-thiadiazole derivative, applied as ashless metal deactivator, Cu/Pb/Ag-passivator, sulphur-scavenger and mild EP/AW-additive in metal working fluids (semi-synthetic and synthetic), hydraulic fluids, transmission-, gear oils (industrial, automotive). It is compatible with most oils and greases, well soluble in base oils, PAO, high sulphur refinery product streams, and crude oil.

■ MC 222

■ Alkylated-thiadiazole derivative, applied as ashless lubricant additive for MWF (semi-synthetic and synthetic), hydraulic fluids, compressor-, transmission-, gear and engine oils and greases. It exhibits excellent EP performance, without negative effects on wear. It acts as a sulphur scavenger, it decreases copper corrosion caused by ZDDP and is soluble in several base oils and PAO.

■ MC 254

Dialkylpolysulfide with high content of active sulphur for extreme pressure performance even at low temperatures in metal working fluids and industrial lubricants. It comprises a sulphur content of 40% with excellent solubility in a wide range of base fluids; light colour and odour. For demanding applications it is combined with MC 450 for best synergies in EP and AW performance.

■ MC 255

Sulphurized isobutene EP-additive used in the formulation of industrial gear oils, metalworking fluids, automotive and industrial greases of various types, and other formulations where less corrosive sulphur is desired. Economical source of sulphur providing good load-carrying and AW properties with low copper corrosion.

■ MC 401

Neutral phosphate-ester used as ashless AW and mild EP additive in industrial lubricants (e.g. hydraulic, gear or compressor oils), greases or metalworking fluids. MC 401 is label-free, LuSC-listed and guarantees a low TPP and phenol content.

■ MC 450

Thermally stable next-generation AW additive for a majority of oil-based lubricants that provides outstanding wear protection even at very low treat rates. Based on more than 90% renewable resources, the liquid dialkyl phosphorous component is the ideal alternative for sustainable lubricant formulations. The label free product is LuSC-listed and HX-1 approved.

■ MC 511

Ashless AW and EP additive based on an organic phosphorothioate ester. Metal-free and thermally stable, it prevents ash formation and catalytic degradation, offering a clean, regulatory-compliant alternative to ZDDPs and TPPT in demanding engine and industrial lubricants.

■ MC 1030

Biodegradable blend of linear dicarboxylic acids. It functions as corrosion inhibitor in metalworking fluids (semi-synthetic and synthetic), engine coolants, aqueous hydraulic fluids, metal cleaners. Low foam tendency, excellent air release, hard water stability and compatible with common corrosion inhibitors.

■ MC 1500

Eco-friendly, fully formulated, high-performance corrosion inhibitor package designed for alkaline, water-based metalworking and industrial cleaning systems. It provides short-term protection against corrosion and staining while ensuring compatibility across a wide range of aluminium alloys and metals. Its efficacy and ease of use make it a robust choice for industrial metal-working and cleaning processes.

■ MC Mecyrat® M

Developed as a replacement for PTFE and MoS₂ in high-temperature applications, this ashless solid lubricant additive is suitable for use in a wide range of greases without affecting grease structure. It provides a cost-effective alternative to conventional materials while maintaining compatibility with common sulphur- and phosphorus-based additives. The additive also exhibits synergistic effects when combined with MoS₂ and remains thermally stable up to 440 °C.

■ MC Mecyrat® P

Colourless, non-volatile, thermally stable phosphorus-containing solid lubricant, developed as an ashless EP additive and friction modifier for greases. It is compatible with a wide range of grease formulations, enhancing the performance of sulphur- and phosphorus-based additives. This cost-effective, high-performance material provides a stable and reliable alternative to conventional solid lubricants.

Service & Expertise – How You Benefit

In complex formulations, the difference between “good enough” and “exactly right” comes down to expertise and follow-through. With Metall-Chemie Fine Chemicals, you work directly with people who understand your technical challenges – and know how to solve them.

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SILVER | Top 15%

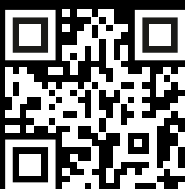
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Sustainability Rating

FEB 2024



METALL CHEMIE
FINE CHEMICALS



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