PRODUCT DATA SHEET

Anti Corrosion Coolants

Revision: 4th of August, 2020

PRODUCT NAME	ITEM NO.	SUPPLEMENTARY DETAILS
ATM-CoolAdd CU	95008731	1000 ml

Description	Additive for aqueous anti corrosion coolant solutions. It is not well suited for the use in mineral oil based anti corrosion coolants or anti corrosion coolant emulsions.
Material	Benzotriazole (breathable state) 15-25 % Further additives do not meet the criteria of mandatory identification or are considered nonhazardous.
Properties	Yellowish-brown liquid, characteristic smell, pH 8.1, viscosity 10 mm²/s
Application	The product is an additive for aqueous anti corrosion coolants. Commonly amounts between 0,05 – 0,2 Vol .% are added. The active components are flocculants and film forming agents. They reduce the amount of heavy metal ions present in the solution. The product is especially effective in reducing the amount of copper ions, nevertheless it also reduces the amount of other heavy metal ions like Co^{2+}. ATM-CoolAdd Cu is well suited for the application with ATM-CoolCut (95004145, 95004146, 95004147) and the anti corrosion coolants (95014280-82 and 95007864). The product usually is applied if larger amounts (>10 % of the throughput) of Cu, Cu alloys and other non-ferrous metals are processed. Anti corrosion coolants with very high amounts of Cu2+ ions are present in aqueous anti corrosion coolants show greenish discolorations. If this does occur in application the use of CoolAdd Cu is advised. The product prevents a chemical attack on copper surfaces and reduces the heavy metal contamination of the medium. The flocculants generate a greenish-grey precipitation that can be removed with the filter cake of the recirculatory cooling unit.
Health and safety	Due to the low amount of the additive in application the safety instructions of the used anti corrosion coolants concentrate are decisive for the applicant. The product should be used in a well-ventilated working space, long term exposure should be prevented. The mandatory threshold values of all hazardous substances have to be taken into account. While handling ATM-CoolAdd Cu suitable protective clothing, protective gloves (nitrile-rubber with fitting permeation time) and tightly sealed eye protection has to be worn. In the case of dermal exposition, the contaminated spot has to be thoroughly rinsed with water and soap. Further instructions regarding first-aid measures and safety regulations are summarized in the SDS.
Environmental precautions	The product is regulated as water hazard class 1. It has to be prevented from leaking into phreatic and surface waters. The disposal of the anti corrosion coolant medium has to be conducted according to local legislation. The application may strongly influence the proper disposal procedure. In most cases ATM-CoolAdd CU is not responsible for the disposal of an anti corrosion coolant. In the case of fire toxic decomposition products can be formed, which makes the use of atmosphere independent respiratory devices necessary. Suitable extinguishing agents are CO_2, powders and water spray.
Storage	The product is assigned to storage class 12 (TGRS 510). It has to be stored in tightly sealed containers in a dry and cool (3-30°C) environment. The storage should be able to prevent the contamination of waters due to product leakage. Further restrictions regarding the storage with other chemicals are not given.