

Technical Datasheet



Trade name : bio-chem STAR US 1
Reviewed: 30.10.2015
Date of print : 30.10.2015

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Description

bio-chem STAR US 1 is a water-based, acidic cleaning concentrate especially designed to work in ultra-sonic cleaning devices. It is suitable to remove tarnish, rust, lime, oxide and mineral deposits of acid-resistant parts and surfaces.

Chemical characterisation

Water-based acidic cleaning agent.

Classification according to Regulation (EC) No.1272/2008 [CLP]

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.
Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.
Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

Transport information

ADR : UN1760 – CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID)

Water hazard class (Classification according to VwVwS)

Water hazard class : 1 (Slightly hazardous to water)

Labelling for contents according to regulation (EC) No. 648/2004

< 5 % anionic surfactants
< 5 % non-ionic surfactants

Safety equipment

Eye / Face protection:	suitable safety goggles acc. EN 166	In case of splash
Hand protection:	suitable gloves type EN 374	In case of possible or prolonged skin contact
Respiratory protection:	Combination filtering device DIN EN 14387	In case of exceeding exposure limit values

Application

bio-chem STAR US 1 is highly concentrated and therefore can be used mixed with water in a ratio up to 1:40. The cleaner is already working effectively at room temperature, an increase in temperature up to 90 °C improves the cleaning result.

Technical data

Appearance :	liquid		
Colour :	yellow		
Odour :	characteristic		
Boiling temperature :	ca. 98 °C	Solidifying temperature :	not determined
Flash point :	not relevant	Ignition temperature :	not relevant
Lower explosion limit :	not relevant	Upper explosion limit :	not relevant
Density (20 °C) :	ca. 1,13 g/cm ³	pH-value (20 °C / 100 g/l) :	ca. 1,5
VOC (EG) :	2,2 Wt %	VOC (CH) :	2,2 Wt %

Storage

Keep container tightly closed. Keep/store only in original container. Protect against sub-zero temperatures. Optimized storage temperature is between 2 °C up to 35 °C. The product is storable in closed original packaging for at least 12 months. Starting date is the date of production.
Storage class (acc. TRGS 510): 12

Disposal advices

The waste codes are recommendations based on the schedule use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

Waste code acc. EWC/AVV for unused product
20 01 29* Detergents containing hazardous substances.

Waste code acc. EWC/AVV for packaging
15 01 02 plastic packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

Order information

A00553-1 5 l Jerry can
A01053-1 10 l Jerry can
A03053-1 30 l Jerry can