

# Technical Datasheet



Trade name : STAR US 4  
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## Description

bio-chem STAR US 4 is a water-based, alkaline, highly concentrated phosphate- and solvents- free cleaning agent to remove strongest oil- and grease- contaminations in combination with an ultrasonic devices. It is suitable for most materials, even aluminium, cast iron and much more.

## Chemical characterisation

Water-based, alkaline surfactant cleaner.

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

Eye Dam. 1 ; H318 -Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.  
Skin Corr. 1B ; H314 -Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.

## Transport information

ADR : UN 1760 –CORROSIVE LIQUID, N.O.S. (DISODIUM TRIOXOSILICATE)

## Water hazard class (Classification according to AwSV)

Water hazard class : 2 (Significant hazardous to water)

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

5-15 % anionic surfactants  
5-15 % 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 enduring skin contact  
Respiratory protection: Combination filtering device DIN EN 14387 In case of exceeding exposure limit values

## Application

STAR US 4 can be applied, depending on the material, in the following concentrations:

Material	Concentration
Copper / Brass	1 – 2 %
Aluminium	3 – 5 %
Steel / Stainless Steel	3 – 5 %
Plastic and all other alkaline resistant surfaces	3 – 5 %

The exact concentration of the cleaner is also dependent on the degree of contamination. To work with least residues, a low concentration is recommended.

*Note: Check compatibility before use.*

## Technical data

Appearance : liquid  
Colour : colourless  
Odour : characteristic  
Boiling temperature : ca. 95 °C  
Flash point : not relevant  
Lower explosion limit : not relevant  
Density (20 °C) : ca. 1,09 g/cm<sup>3</sup>  
VOC (EG) : 0 Wt %  
Solidifying temperature : < 0 °C  
Ignition temperature : not relevant  
Upper explosion limit : not relevant  
pH-value : 13-14  
VOC (CH) : 5 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): 8B

Do not store together with acids.

## 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.

<b>Waste code acc. EWC/AVV for unused product</b>	<b>Waste code acc. EWC/AVV for packaging</b>
07 06 01* Aqueous washing liquids and mother liquors.	15 01 02 plastic packaging
20 01 29* detergents containing dangerous sub-stances.	

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

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

A00553-4 5 l Jerry can  
A01053-4 10 l Jerry can  
A02053-4 20 l Jerry can