

General purpose cleaning fluid - safety data sheet

Part No: US-SO-Z-BES-ULT-1L, US-SO-Z-BES-ULT-5L, US-SO-Z-BES-ULT-25L

Doc: v1.0

A specialist formulation for adding to ultrasonic baths for cleaning metal, ceramic, glass, rubber etc. It safely removes contaminants including dirt, grease, dust, oils etc.

- Safe to use on most materials.
- Deep cleans removing dirt and oxidation.
- Excellent stain remover.
- Economical to use.
- For professional and amateur use.

Directions

Concentrate is added to water at a rate of 1 part concentrate, to between 5 and 20 parts water dependant on cleaning action required. Operating temperature of bath should be set between 40 - 70 degrees centigrade.

Solutions should be used with deionised, demineralised or distilled water as Calcium carbonate and other impurities in tap water can effect/reduce the cleaning properties of the solutions and produce undesirable side effects such as deposits

Always test before use on new applications.

BEST ULTRASONIC CLEANERS LIMITED
Dove Cottage
Bluebell lane
Todmorden
West Yorkshire
OL14 8SE

+44 (0) 1706 950112

sales@bestultrasonic.co.uk

www.bestultrasonic.co.uk

Safety Data Sheet

Health and Safety Data

PRODUCT IDENTIFICATION	PRODUCT NAME: PRODUCT CODE: PRODUCT TYPE: SUPPLIER: EMERGENCY TEL:	Ultrasonic General Purpose Cleaner US-SO-Z-BES-ULT-1L, US-SO-Z-BES-ULT-5L US-SO-Z-BES-ULT-25L Best Ultrasonic Cleaners Ltd Dove Cottage Bluebell lane Todmorden, OL14 8SE Tel: 01706 950112 NHS DIRECT – 0845 4647 or 111 National Poisons Information Service (Birmingham Centre), City Hospital, Dudley Rd, Birmingham. U.K
HAZARDS IDENTIFICATION	CLASSIFICATION UNDER CLP: MOST IMPORTANT ADVERSE EFFECTS: HAZARD STATEMENTS: SIGNAL WORDS: HAZARD PICTOGRAMS: PRECAUTIONARY STATEMENTS:	Eye Dam. 1: H318; Skin Irrit. 1B: H314 Causes severe skin burns. Causes serious eye damage. H314 Causes severe skin burns and eye damage. Danger. GHS05: Corrosion. P260 Do not breathe mist/vapours/spray. P280 Wear protective gloves / eye protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
COMPOSITION/ INFORMATION ON INGREDIENTS	PBT: CHEMICAL CHARACTERISATION: DESCRIPTION:	Not applicable Mixtures Mixture of substances listed below with non hazardous
	CAS: 10213-79-3 EINECS: 229-912-9 Reg.nr.: 01-2119449811-37-xxxx	Disodium metasilicate pentahydrate Met. Corr.1, H290; Skin Corr. 1B, H314 Acute Tox. 4, H302; STOT SE 3, H335 5-10%
	CAS: 68439-46-3 Polymer	Alcohol ethoxylate C9 - C11 Eye Dam. 1, H318 Acute Tox. 4, H302 5-10%
	CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36-xxxx	Alkyl C8-C10 polyglucocide Eye Dam. 1, H318 2.5-5%
	CAS: 68608-68-4 EINECS: 271-795-1	β-Alanine, N-coco alkyl derivs., sodium salts Eye Irrit. 2, H319 1-2.5%
	CAS: 64-02-8 EINECS: 200-573-9 Reg.nr.: 01-2119486762-27-xxxx	Tetrasodium ethylenediaminetetraacetate STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H332 1-2.5%

Safety Data Sheet

INGREDIENTS ACCORDING TO DETERGENTS REGULATION 648/2004/EC

Non ionic surfactants	≥5 - <15%
Amphoteric surfactants, EDTA and salts thereof	<5%

FIRST AID MEASURES

DESCRIPTIONS OF FIRST AID:

GENERAL INFORMATION:	Immediately remove any clothing soiled by the product.
AFTER INHALATION:	In case of unconsciousness place patient stably in side position for transportation.
AFTER SKIN CONTACT:	If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water
AFTER EYE CONTACT:	Rinse opened eye for several minutes under running water. Then consult a doctor.
AFTER SWALLOWING:	Drink plenty of water and provide fresh air. Call for a doctor immediately.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:	No further relevant information available.
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:	No further relevant information available.

FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING AGENTS:	Use fire extinguishing methods suitable to surrounding conditions.
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:	During heating or in case of fire poisonous gases are produced.
ADVICE FOR FIRE-FIGHTERS:	Protective equipment: Mount respiratory protective device.

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away
ENVIRONMENTAL PRECAUTIONS:	No special measures required.
CLEAN-UP PROCEDURES:	Absorb with liquid-binding material (sand, diatomite, universal binders). Use neutralising agent. Dispose contaminated material as waste. Ensure adequate ventilation.
REFERENCE TO OTHER SECTIONS:	See page 5 for information on safe handling. See page 5 for information on personal protection equipment. See page 9 for disposal information.

Safety Data Sheet

HANDLING AND STORAGE

HANDLING REQUIREMENTS: Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

INFORMATION ABOUT FIRE AND EXPLOSION PROTECTION:

Keep respiratory protective device available

STORAGE CONDITIONS:

Store in a cool, well ventilated area. Keep container tightly closed.

SPECIFIC END USE(S):

No further relevant information available

EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide (0%)

WEL (Great Britain)

Short-term value: 2 mg/m³

DNELs

68515-73-1 alkyl C8-C10 polyglucocide

Oral DNEL Long term-systemic

35.7 mg/kg human/day (consumer)

Dermal DNEL Long term-systemic

357,000 mg/kg human/day (consumer)

595,000 mg/kg human/day (worker)

Inhalative DNEL Long term-systemic mg/m³

124 mg/m³ (consumer)

420 mg/m³ (worker)

64-02-8 tetrasodium ethylenediaminetetraacetate

Oral DNEL Long term-systemic

28 mg/kg human/day (consumer)

Inhalative DNEL Acute-systemic mg/m³

1.7 mg/m³ (consumer)

2.8 mg/m³ (worker)

PNECs

68515-73-1 alkyl C8-C10 polyglucocide

PNEC Freshwater mg/L

0.1 mg/L (-)

PNEC Marinewater mg/L

0.01 mg/L (-)

PNEC Freshwater sediment

0.487 mg/Kg (-)

PNEC Marine water sediment

0.048 mg/Kg (-)

PNEC Intermittent release

270 (-) (mg/L)

PNEC Soil

0.654 mg/Kg (-)

PNEC Sewage treatment Plant mg/L

560 mg/L (-)

ADDITIONAL INFORMATION: The lists valid during the making were used as basis.

EXPOSURE CONTROLS:

PERSONAL PROTECTIVE EQUIPMENT:

GENERAL PROTECTIVE AND HYGIENIC MEASURES:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

RESPIRATORY PROTECTION: Not required.

PROTECTION OF HANDS:

Protective Gloves

Safety Data Sheet

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

MATERIAL OF GLOVES:

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

PENETRATION TIME OF GLOVE MATERIAL:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

NOT SUITABLE ARE GLOVES MADE OF THE FOLLOWING MATERIALS: Strong material gloves

EYE PROTECTION:

Tightly sealed goggles

PHYSICAL AND CHEMICAL PROPERTIES

<u>GENERAL INFORMATION:</u>	No data available.
APPEARANCE:	
FORM:	Liquid
COLOUR:	Light yellow
ODOUR:	Characteristic
ODOUR THRESHOLD:	Not determined.
PH-VALUE AT 20 °C:	11.4
<u>CHANGE IN CONDITION:</u>	In combustion emits toxic fumes.
MELTING POINT/FREEZING POINT:	Undetermined
INITIAL BOILING POINT AND BOILING RANGE:	100 °C
FLASH POINT:	Not applicable
FLAMMABILITY (SOLID, GAS):	Not applicable
DECOMPOSITION TEMPERATURE:	Not determined.
AUTO-IGNITION TEMPERATURE:	Product is not self igniting.
EXPLOSIVE PROPERTIES:	Product does not present an explosion hazard. Not determined.

Safety Data Sheet

EXPLOSION LIMITS:

LOWER: Not determined.
UPPER: Not determined.

VAPOUR PRESSURE AT 20 °C: 23 hPa

DENSITY AT 20 °C: 1.1 g/cm³

RELATIVE DENSITY: Not determined.

VAPOUR DENSITY: Not determined.

EVAPORATION RATE: Not determined.

SOLUBILITY IN / MISCIBILITY WITH WATER: Fully miscible.

PARTITION COEFFICIENT: N-OCTANOL/WATER: Not determined.

VISCOSITY: Not determined.
DYNAMIC: Not determined.
KINEMATIC: Not determined.

SOLVENT CONTENT:

SWISS VOC: 0.00 %

SOLIDS CONTENT:

14.6 %

OTHER INFORMATION: No further relevant information available.

STABILITY AND REACTIVITY

REACTIVITY: No further relevant information available.

CHEMICAL STABILITY: No decomposition if used according to specifications.
THERMAL DECOMPOSITION /
CONDITIONS TO BE AVOIDED:

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reactions known.

CONDITIONS TO AVOID: No further relevant information available.

INCOMPATIBLE MATERIALS: No further relevant information available.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

Safety Data Sheet

TOXICOLOGICAL INFORMATION INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

10213-79-3 disodium metasilicate pentahydrate

Oral	LD50	>1,000 mg/kg (Rat)
	LC50 / 96 h	>200 mg/ltr (Daphnia magna (water flea))

68439-46-3 Alcohol ethoxylate C9 - C11

Oral	LD50	1,400 mg/kg (Rat)
Dermal	LD50	2,000 mg/kg (Rat)

68515-73-1 alkyl C8-C10 polyglucocide

Dermal	LD50	>2,000 mg/kg (Rat)
--------	------	--------------------

64-02-8 tetrasodium ethylenediaminetetraacetate

Oral	LD50	1,560 mg/kg
	LC50 / 4 h	>1,000 mg/ltr 2 mg/ltr (Rat)
Inhalative	LC50 / 96 h	>1,000 mg/ltr (Lepomis Macrochirus (Bluegill Sunfish)) 33-189 mg/ltr (fish)
	EC 50 / 48 h	140 mg/ltr (Daphnia magna (water flea))
	EC 50 / 72 H	>300 (Desmodesmus subspicatus) (mg/L)

PRIMARY IRRITANT EFFECT:

SKIN CORROSION/IRRITATION:

Causes severe skin burns and eye damage.

SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye damage.

RESPIRATORY OR SKIN SENSITISATION: Based on available data, the classification criteria are not met.

CMR EFFECTS (CARCINOGENICITY, MUTAGENICITY AND TOXICITY FOR REPRODUCTION)

GERM CELL MUTAGENICITY: Based on available data, the classification criteria are not met.

CARCINOGENICITY: Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY: Based on available data, the classification criteria are not met.

STOT-SINGLE EXPOSURE: Based on available data, the classification criteria are not met.

STOT-REPEATED EXPOSURE: Based on available data, the classification criteria are not met.

ASPIRATION HAZARD: Based on available data, the classification criteria are not met.

Safety Data Sheet

ECOLOGICAL INFORMATION

TOXICITY:

AQUATIC TOXICITY: No further relevant information available.

PERSISTENCE AND DEGRADABILITY: No further relevant information available

OTHER INFORMATION: The product is biodegradable.

BIOACCUMULATIVE POTENTIAL: No further relevant information available.

MOBILITY IN SOIL: No further relevant information available

GENERAL NOTES: Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

PBT: Not applicable.

VPVB: Not applicable

OTHER ADVERSE EFFECTS: No further relevant information available.

DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:

RECOMMENDATION: Disposal must be made according to official regulations.

UNCLEANED PACKAGING:

RECOMMENDATION: Dispose of packaging according to regulations on the disposal of packaging.

TRANSPORT INFORMATION

UN-Number	ADR, ADN, IMDG, IATA	Void
UN proper shipping name	ADR, ADN, IMDG, IATA	Void
Transport hazard class(es)	ADR, ADN, IMDG, IATA Class	Void
Packing group	ADR, IMDG, IATA	Void
Environmental hazards:		No
Marine pollutant:		No
Special precautions for user		Not applicable
Transport in bulk according to Annex II of Marpol and the IBC Code		Not applicable
UN "Model Regulation":		Void

Safety Data Sheet

REGULATORY INFORMATION

SAFETY, HEALTH AND
ENVIRONMENTAL
REGULATIONS/LEGISLATION
SPECIFIC FOR THE
SUBSTANCE OR MIXTURE:

Reg . (EC) n. 1272/2008 - CLP;
Reg. (EC) n. 1907/2006 – Reach;
Reg. (EC) n. 2015/830 annex II of REACH;
Reg. (EC) n. 648/04 (Detergents);
Reg. (EC) n. 528/12 (Biocides BPR);
Reg. (EC) n. 1223/2009 (Cosmetics);
Dir. 06/08 ADR – RID - IMDG - IATA;
Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);
Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste
management)

DIRECTIVE 2012/18/EU:

NAMED DANGEROUS
SUBSTANCES - ANNEX I:

None of the ingredients is listed

REGULATION (EC) NO
1907/2006 ANNEX XVII:

I Conditions of restriction: 3

NATIONAL REGULATIONS:

WATER HAZARD CLASS:

Water hazard class 2 (Self-assessment): hazardous for water.

CHEMICAL SAFETY
ASSESSMENT:

A Chemical Safety Assessment has been carried out.

OTHER
INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

RELEVANT PHRASES:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

ABBREVIATIONS AND
ACRONYMS:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

DNEL: Derived No-Effect Level (REACH).

PNEC: Predicted No-Effect Concentration (REACH).

LC50: Lethal concentration, 50 percent.

LD50: Lethal dose, 50 percent.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: very Persistent and very Bioaccumulative.

Met. Corr.1: Corrosive to metals – Category 1.

Acute Tox. 4: Acute toxicity – Category 4.

Skin Corr. 1B: Skin corrosion/irritation – Category 1B.

Eye Dam. 1: Serious eye damage/eye irritation – Category 1.

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2.

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3.

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2.

BEST ULTRASONIC CLEANERS LIMITED

Dove Cottage

Bluebell lane

Todmorden

West Yorkshire

OL14 8SE

+44 (0) 1706 950112

sales@bestultrasonic.co.uk

www.bestultrasonic.co.uk