

Safety data sheet
according to 1907/2006/EC
ASonic ultrasonic cleaning solution for PCBs
Version: 1 / Revision date 26.11.15. / Printing date 26.11.15.

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME ASonic ultrasonic cleaning solution for PCBs
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Slovenia
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INTERNAL ID AS-PCB-1, AS-PCB-5
APPLICATION General Cleaning and Degreasing in ultrasonic cleaners
SECTOR OF USE Cleaning Product for Professional and Amateur Use
CONTAINER SIZE 1 litre, 5 litres

2 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification according to Regulation (EC) No 1272/2008:



GHS 07
Eye Irrit. 2 : Causes serious eye irritation.

LABEL ELEMENTS:

SIGNAL WORD: Warning

HAZARD-DETERMINING COMPONENTS OF LABELLING: (2-methoxymethylethoxy)propanol and 2-butoxyethanol ethoxylates, 1-2.5 EO

HAZARD PICTOGRAMS:



GHS07

HAZARD STATEMENTS:

H319 - Causes serious eye irritation.

H402 - Harmful to aquatic life.

PRECAUTIONARY STATEMENTS:

P264 - Wash hands and exposed skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

OTHER HAZARDS - No other hazards have been identified for this product.

3 COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: Mixtures
DESCRIPTION: Concentrated cleaning fluid for use in Ultrasonic Baths.

| | | |
|----------------------------------|--|--------|
| CAS: 34590-94-8 EC: 252-104-2 | (2-methoxymethylethoxy)propanol Not classified | 20-30% |
| CAS: 111-76-2 EC: 203-905-0 | 2-butoxyethanol ethylene glycol monobutyl ether butyl cellosolve Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Irrit. 2 H315, Eye Irrit. 2 H319, Acute Tox. 4 H332 | 5-10% |
| CAS: 66455-14-9 EC: 500-165-3 | Alcohols, C12-13, ethoxylates 1-2.5 EO Acute Tox. 4 GHS05 H302, Eye Dam. 1 H318, Aquatic Chronic 3 H412 | 1-5% |
| CAS: 61789-40-0 EC: 263-058-8 | Cocamidopropyl Betaine Skin Irrit. 2 H315, Eye Irrit. 2 H319 | 0-1% |

4 FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

INHALATION - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

SKIN CONTACT - Wash skin with water.

EYE CONTACT - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

INGESTION - Wash out mouth with water.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED - May cause irritation.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED - Treat symptomatically.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA - As appropriate for surrounding fire.

UNSUITABLE EXTINGUISHING MEDIA - None.

SPECIAL HAZARDS ARISING FROM – May decompose in a fire, giving off toxic and irritant vapours.

THE SUBSTANCE OR MIXTURE

ADVICE FOR FIRE-FIGHTERS - Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Dike fire control water for later disposal.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES - Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.

ENVIRONMENTAL PRECAUTIONS - Do not release large quantities into the surface water or into drains.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP - Sweep up spilled substance and remove to safe place. Use vacuum equipment for collecting spilt materials, where practicable.

REFERENCE TO OTHER SECTIONS - See Also Section 8, 13.

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING - Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORAGE TEMPERATURE Ambient.

STORAGE LIFE Stable under normal conditions.

INCOMPATIBLE MATERIALS None known.

SPECIFIC END USE(S) - No relevant information available

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|----------------------------------|---|---------------------|------------------------------------|------------|---------------------------|-------------|
| 2-Butoxyethanol | 111-76-2 | 25 | 123 | 50 | 246 | Sk, BMGV |
| 2-Butoxyethanol | 111-76-2 | 20 | 98 | 50 | 246 | IOELV, Skin |
| (2-methoxymethylethoxy) propanol | 34590-94-8 | 50 | 308 | | | Sk |
| (2-Methoxymethylethoxy)-propanol | 34590-94-8 | 50 | 308 | | | IOELV, Skin |
| Remark | Footnote | | | | | |
| Sk | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | | | |
| BMGV | Biological monitoring guidance values are listed. | | | | | |
| IOELV | IOELV: Indicative Occupational Exposure Limit Value | | | | | |
| Skin | The possibility of significant uptake through the skin. | | | | | |

BIOLOGICAL EXPOSURE INDICES

| SUBSTANCE | CAS No. | Sampling tissues | Control parameters | Biological monitoring guidance value |
|-----------------|----------|------------------|--------------------|--------------------------------------|
| 2-Butoxyethanol | 111-76-2 | Post shift urine | Butoxyacetic acid | 240 mmol/mol creatinine |

EXPOSURE CONTROLS:

APPROPRIATE ENGINEERING CONTROLS - Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.

PERSONAL PROTECTION EQUIPMENT

EYE PROTECTION - Wear eye protection with side protection (EN166).

SKIN PROTECTION - Wear protective clothing and gloves: Impervious gloves (EN 374).

RESPIRATORY PROTECTION - Normally no personal respiratory protection is necessary.

THERMAL HAZARDS - None known.

ENVIRONMENTAL EXPOSURE CONTROLS - Avoid release to the environment

9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

STATE: Liquid

COLOUR: Clear/Colourless

ODOUR: Faint

SOLUBILITY IN WATER: Soluble in water

pH: Not determined

FLASH POINT: Not determined

BOILING POINT: Not determined

SPECIFIC GRAVITY: Not determined

OTHER INFORMATION: No data available

10 STABILITY AND REACTIVITY

REACTIVITY - None anticipated.

CHEMICAL STABILITY - Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS - No hazardous reactions known if used for its intended purpose.

CONDITIONS TO AVOID - None anticipated.

INCOMPATIBLE MATERIALS - Not known.

HAZARDOUS DECOMPOSITION PRODUCTS – None known.

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY – INGESTION - Not classified.

Calculated acute toxicity estimate (ATE) Calc ATE - 50000.00000

ACUTE TOXICITY - SKIN CONTACT - Not classified.

ACUTE TOXICITY - INHALATION - Not classified.

SKIN CORROSION/IRRITATION - Not classified.

SERIOUS EYE DAMAGE/IRRITATION - Calculation method: Causes serious eye irritation.

SKIN SENSITIZATION DATA - Not classified.

RESPIRATORY SENSITIZATION DATA - Not classified.

GERM CELL MUTAGENICITY - Not classified.

CARCINOGENICITY - Not classified.

REPRODUCTIVE TOXICITY - Not classified.

LACTATION - Not classified.

STOT - SINGLE EXPOSURE - Not classified.

STOT - REPEATED EXPOSURE - Not classified.

ASPIRATION HAZARD - Not classified.

OTHER INFORMATION - Not known.

12 ECOLOGICAL INFORMATION

TOXICITY - AQUATIC INVERTEBRATES – Low toxicity to invertebrates.

TOXICITY - FISH - Low toxicity to fish.

TOXICITY - ALGAE - Low toxicity to algae.

TOXICITY - SEDIMENT COMPARTMENT – Not classified.

TOXICITY - TERRESTRIAL COMPARTMENT - Not classified.

PERSISTENCE AND DEGRADATION - Not known.

BIOACCUMULATIVE POTENTIAL - Not known.

MOBILITY IN SOIL - Not known.

RESULTS OF PBT AND VPOB ASSESSMENT - Not known.

OTHER ADVERSE EFFECTS - Not known.

13 DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS - Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator.

ADDITIONAL INFORMATION - Disposal should be in accordance with local, state or national legislation.

14 TRANSPORT INFORMATION

NOT CLASSIFIED AS DANGEROUS FOR TRANSPORT.

15 REGULATORY INFORMATION

EUROPEAN REGULATIONS - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation - All chemicals are not listed

REACH: ANNEX XIV list of substances subject to authorization - All chemicals are not listed

REACH: ANNEX XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles - All chemicals are not listed

Community Rolling Action Plan (CoRAP) - Not known.

Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants - Not listed

Regulation (EC) N° 2037/2000 on substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals - Not listed

NATIONAL REGULATIONS

Other - Not known.

16 OTHER INFORMATION

CLARIFICATION OF TERMS USED IN SECTION 3

H315 - Causes serious eye irritation.

H402 - Harmful to aquatic life.

P264 - Wash hands and exposed skin thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

DISCLAIMER

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

Product classification has been carried out using: Summation Method

Some values may have been calculated or estimated using appropriate methods. No guarantees are given, express or implied, regarding the accuracy of the data presented.