Oxidation Removal Cleaning Solution

A specialist acidic formulation for adding to Ultrasonic baths for removing oxidation from metals including iron, copper, tin, aluminum and stainless steel. It is ideal for engine parts including carburetors, valves, heat exchangers etc as well as metals that have been in storage. Other applications include oxides resulting from soldering or welding.

As well as removing oxides it safely removes contaminants including general soiling, carbon and grease etc. The cleaning process will not damage, corrode or darken most metal components. It is totally biodegradable and phosphate free.

- Safe to use on most metals.
- Acidic formulation specifically for removing oxidation.
- Excellent stain remover.
- For professional and amateur use.

**Directions**

Concentrate is added to water at a rate of 1 part concentrate to 10 parts of water. Operating temperature of bath should be set between 40 and 80 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.

After cleaning rinse all surfaces thoroughly with clean water. The bath should be changed regularly when the solution becomes dirty.

**Other Ultrasonic Solutions Available**

There are a variety of ultrasonic solutions available, formulated for specific applications. Correct selection is vital to give optimal performance and prevent an adverse reaction.

Solutions include;
- Jewellery.
- Glass and optical lens.
- General Purpose Degrease.
- Oxidation Remover.
- Sensitive Metals.
- Carburettor and engine parts.
Health and Safety Data

PRODUCT IDENTIFICATION

PRODUCT NAME: Ultrasonic cleaner for oxide remover
PRODUCT TYPE: cleaner concentrate for use in ultrasonic baths
SUPPLIER: ALLENDALE ULTRASONICS
PINDAR ROAD, HODDESDON, EN11 0BZ.
Tel: 01992 455925 Fax: 01992 450781
WEBSITE: www.allendale-ultrasonics.co.uk
DATE ISSUED: 04-10-2016
EMERGENCY TEL: +00 448 706 006 266 NHS DIRECT – 0845 4647 or 111
National Poisons Information Service (Birmingham Centre), City Hospital, Dudley Rd, Birmingham. U.K.

HAZARDS IDENTIFICATION

CLASSIFICATION UNDER CLP: Skin corr. 1A: H314
MOST IMPORTANT ADVERSE EFFECTS: Causes severe skin burns and eye damage
HAZARD STATEMENTS: H314: Causes severe skin burns and eye damage.
SIGNAL WORDS: Danger.
HAZARD PICTOGRAMS: GHS05: Corrosion.

This product is not identified as a PBT/vPvB substance.

COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS
ALCOHOLS, C12-13-BRANCHED AND LINEAR, ETHOXYLATED (>5 - <15 EO)

EINECS | CAS | CLP CLASSIFICATION | PERCENT
-------- | ---- | ------------------ | ----
931-954-4 | 160901-19-9 | Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 3: H412 | 1-10%

FIRST AID MEASURES

DESCRIPTIONS OF FIRST AID

SKIN CONTACT: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

EYE CONTACT: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
### INGESTION:

Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

### INHALATION:

Remove casualty from exposure ensuring one’s own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

### SYMPTOMS

#### SKIN CONTACT:

Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

#### EYE CONTACT:

Corneal burns may occur. May cause permanent damage.

#### INGESTION:

Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

#### INHALATION:

There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

#### DELAYED / IMMEDIATE EFFECTS:

Immediate effects can be expected after short-term exposure.

### FIRE-FIGHTING MEASURES

#### IMMEDIATE / SPECIAL TREATMENT:

Eye bathing equipment should be available on the premises.

#### EXTINGUISHING MEDIA:

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

#### EXPOSURE HAZARDS:

Corrosive. In combustion emits toxic fumes.

#### ADVICE FOR FIRE-FIGHTERS:

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS:

Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

#### ENVIRONMENTAL PRECAUTIONS:

Do not discharge into drains or rivers. Contain the spillage using bunding.

#### CLEAN-UP PROCEDURES:

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### REFERENCE TO OTHER SECTIONS:

Refer to section 8 of SDS.
### HANDLING AND STORAGE

**HANDLING REQUIREMENTS:**
Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

**STORAGE CONDITIONS:**
Store in a cool, well ventilated area. Keep container tightly closed.

**SPECIFIC END USE(S):**
No data available

### EXPOSURE CONTROLS / PERSONAL PROTECTION

**HAZARDOUS INGREDIENTS:**
No data available

**WORKPLACE EXPOSURE LIMITS:**
DNEL / PNEC:
No data available

**ENGINEERING MEASURES:**
Ensure there is sufficient ventilation of the area.

**RESPIRATORY PROTECTION:**
Self-contained breathing apparatus must be available in case of emergency.

**HAND PROTECTION:**
Impermeable gloves.

**EYE PROTECTION:**
Tightly fitting safety goggles. Ensure eye bath is to hand.

**SKIN PROTECTION:**
Impermeable protective clothing.

### PHYSICAL AND CHEMICAL PROPERTIES

**STATE:**
Liquid

**COLOUR:**
Yellow

**ODOUR:**
Characteristic odour

**EVAPORATION RATE:**
No data available.

**OXIDISING:**
No data available.

**SOLUBILITY IN WATER:**
No data available.

**VISCOITY:**
No data available.

**BOILING POINT / RANGE°C:**
No data available.

**FLAMMABILITY LIMITS % LOWER:**
No data available.

**FLASH POINT°C:**
No data available.

**AUTOFLAMMABILITY°C:**
No data available.

**RELATIVE DENSITY:**
No data available.

**VOC G/L:**
No data available.

**MELTING POINT / RANGE°C:**
No data available.

**PART.COEFF. N-OCTANOL/WATER:**
No data available.

**VAPOUR PRESSURE:**
No data available.

**PH:**
1.0 - 2.0

### STABILITY AND REACTIVITY

**OTHER INFORMATION:**
No data available.

**REACTIVITY:**
Stable under recommended transport or storage conditions.

**CHEMICAL STABILITY:**
Stable under normal conditions.

**HAZARDOUS REACTIONS:**
Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
### Conditions to Avoid:
Heat.

### Materials to Avoid:
Strong oxidising agents. Strong acids.

### Haz. Decomp. Products:
In combustion emits toxic fumes.

### Toxicological Information

#### Relevant Hazards for Substance:
- **Skin Contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- **Eye Contact:** Corneal burns may occur. May cause permanent damage.
- **Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- **Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.
- **Delayed / Immediate Effects:** Immediate effects can be expected after short-term exposure.

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Route</th>
<th>Basis</th>
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</thead>
<tbody>
<tr>
<td>Skin corrosion / irritation</td>
<td>DRM</td>
<td>Hazardous: Calculated</td>
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<tr>
<td>Serious eye damage / irritation</td>
<td>OPT</td>
<td>Hazardous: Calculated</td>
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</tbody>
</table>

### Ecological Information

#### Ecotoxicity Values:
No data available.

#### Persistence and Degradability:
Biodegradable

#### Bioaccumulative Potential:
No bioaccumulation potential.

#### Mobility:
Readily absorbed into soil.

#### PBT Identification:
This product is not identified as a PBT/vPvB substance.

### Disposal Considerations

#### Other Adverse Effects:
Negligible ecotoxicity.

#### Disposal Operations:
Transfer to a suitable container and arrange for collection by specialised disposal company.

#### NB:
The user’s attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Transport Information

#### UN Number:
UN1760

#### Shipping Name:
CORROSIVE LIQUID, N.O.S.

#### Transport Class:
8

#### Packing Group:
III

#### Environmentally Hazardous:
No

#### Special Precautions:
No special precautions.
<table>
<thead>
<tr>
<th>OTHER INFORMATION</th>
<th>SPECIFIC REGULATIONS:</th>
<th>Not applicable</th>
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</thead>
<tbody>
<tr>
<td>OTHER INFORMATION:</td>
<td>This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010. * Indicates text in the SDS which has changed since the last revision</td>
<td></td>
</tr>
<tr>
<td>LEGAL DISCLAIMER:</td>
<td>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.</td>
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</table>
Contact Details

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