

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name:** RESSOL SYSTEMS CLEANER PLUS**Product code:** MW0225**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of substance / mixture:** PC25: Metal working fluids. PC35: Washing and cleaning products (including solvent based products).**1.3. Details of the supplier of the safety data sheet****Company name:** Ryona Engineering supplies LTD

Unit 2 Holbrooks park EST

Holbrooks

Coventry

West Midlands

CV6 4AB

United Kingdom

**Tel:** 02476 665454**Fax:** 02476 665453**Email:** [Sales@ryona-supplies.co.uk](mailto:Sales@ryona-supplies.co.uk)**1.4. Emergency telephone number****Emergency tel:** 02476 665454

(office hours only)

**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification under CLP:** Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 2: H411; Skin Sens. 1: H317**Most important adverse effects:** Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.**2.2. Label elements****Label elements:****Hazard statements:** H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS05: Corrosion

GHS07: Exclamation mark

HS09: Environmental

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**Signal words:** Danger

**Precautionary statements:** P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P270: Do not eat, drink or smoke when using this product.  
P264: Wash hands thoroughly after handling.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P301+312: IF SWALLOWED: Call a POISON CENTRE / doctor / physician if you feel unwell.  
P330: Rinse mouth.  
P302+352: IF ON SKIN: Wash with plenty of water/soap.  
P333+313: If skin irritation or rash occurs: Get medical advice/attention.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTRE / doctor / physician.  
P501: Dispose of contents/container to an approved waste disposal plant.

### 2.3. Other hazards

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

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

1,3,5-TRIS(2-HYDROXYETHYL)HEXAHYDRO-1,3,5-TRIAZINE

| EINECS    | CAS       | PBT / WEL | CLP Classification                     | Percent |
|-----------|-----------|-----------|--|---------|
| 225-208-0 | 4719-04-4 | -         | Acute Tox. 4: H302; Skin Sens. 1: H317 | 10-30%  |

EDETIC ACID (EDTA)

|           |         |   |                    |       |
|-----------|---------|---|--------------------|-------|
| 200-449-4 | 60-00-4 | - | Eye Irrit. 2: H319 | 1-10% |
|-----------|---------|---|--------------------|-------|

AMINES, TALLOW ALKYL, ETHOXYLATED

|           |            |   |  |       |
|-----------|------------|---|--|-------|
| 939-959-1 | 61791-26-2 | - | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 1: H410 | 1-10% |
|-----------|------------|---|--|-------|

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2,2'-OXYBISETHANOL

|           |          |   |                    |       |
|-----------|----------|---|--------------------|-------|
| 203-872-2 | 111-46-6 | - | Acute Tox. 4: H302 | 1-10% |
|-----------|----------|---|--------------------|-------|

#### Section 4: First aid measures

##### 4.1. Description of first aid measures

**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. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

##### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.  
There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

##### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Not applicable.

#### Section 5: Fire-fighting measures

##### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

##### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

##### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### Section 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

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**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Workplace exposure limits:** No data available.

**DNEL/PNEC Values**

**Hazardous ingredients:**

**2,2'-OXYBISETHANOL**

| Type | Exposure     | Value        | Population | Effect |
|------|--------------|--------------|------------|--------|
| DNEL | Dermal       | 53/mg/kg/day | Workers    | -      |
| DNEL | Inhalation   | 12/mg/m3     | Workers    | -      |
| PNEC | Fresh water  | 10mg/l       | -          | -      |
| PNEC | Marine water | 1 mg/l       | -          | -      |
| PNEC | Sediment     | 20.9mg/kg    | -          | -      |
| PNEC | Soil         | 1.53 mg/kg   | -          | -      |
| PNEC | STP          | 10mg/l       | -          | -      |

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

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**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Blue

**Odour:** Characteristic odour

**Solubility in water:** Miscible

**Viscosity:** Non-viscous

**Kinematic viscosity:** 50-80

**Viscosity test method:** Kinematic viscosity in 10<sup>-6</sup> m<sup>2</sup>/s at 40°C (ISO 3219)

**Boiling point/range°C:** >100

**Melting point/range°C:** < 0

**Flash point°C:** >100

**Relative density:** 1.06

**pH:** 10

#### 9.2. Other information

**Other information:** No data available.

### Section 10: Stability and reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

#### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents.

#### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

### Section 11: Toxicological information

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**11.1. Information on toxicological effects**

**Hazardous ingredients:**

**1,3,5-TRIS(2-HYDROXYETHYL)HEXAHYDRO-1,3,5-TRIAZINE**

|     |     |      |     |       |
|-----|-----|------|-----|-------|
| ORL | RAT | LD50 | 763 | mg/kg |
| SKN | RAT | LD50 | >2  | gm/kg |

**AMINES, TALLOW ALKYL, ETHOXYLATED**

|      |     |      |              |       |
|------|-----|------|--------------|-------|
| ORAL | RAT | LD50 | > 200 - 2000 | mg/kg |
|------|-----|------|--------------|-------|

**2,2'-OXYBISETHANOL**

|      |     |           |      |       |
|------|-----|-----------|------|-------|
| ORAL | MUS | FERTILITY | 3060 | mg/kg |
| ORAL | RAT | NOAEL     | 100  | mg/kg |

**Relevant hazards for product:**

| Hazard                         | Route | Basis                 |
|--------------------------------|-------|-----------------------|
| Acute toxicity (ac. tox. 4)    | ING   | Hazardous: calculated |
| Serious eye damage/irritation  | OPT   | Hazardous: calculated |
| Respiratory/skin sensitisation | DRM   | Hazardous: calculated |

**Symptoms / routes of exposure**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.  
There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Section 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

**AMINES, TALLOW ALKYL, ETHOXYLATED**

|         |          |           |      |
|---------|----------|-----------|------|
| ALGAE   | 72H EC50 | > 0.1 - 1 | mg/l |
| DAPHNIA | 48H EC50 | > 1 - 10  | mg/l |
| FISH    | 96H LC50 | > 0.1 - 1 | mg/l |

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**2,2'-OXYBISETHANOL**

|                                    |              |         |      |
|------------------------------------|--------------|---------|------|
| ALGAE                              | 72H IC50     | 2700    | mg/l |
| Daphnia magna                      | 48H EC50     | > 10000 | mg/l |
| FISH (Flat-head Minnow)            | 96H LC50     | 75200   | mg/l |
| Micro organisms (Activated Sludge) | EC20 30 mins | > 1995  | mg/l |

**12.2. Persistence and degradability**

**Persistence and degradability:** Readily biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

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

**12.6. Other adverse effects**

**Other adverse effects:** Toxic to aquatic organisms. Toxic to soil organisms.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**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.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN3082

**14.2. UN proper shipping name**

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

**14.3. Transport hazard class(es)**

**Transport class:** 9

**14.4. Packing group**

**Packing group:** III

**14.5. Environmental hazards**

**Environmentally hazardous:** Yes

**Marine pollutant:** No

[cont...]

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**14.6. Special precautions for user**

Tunnel code: E

Transport category: 3

**Section 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.

**Legend to abbreviations:** PNEC = predicted no effect concentration

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

LDLO = lethal dose low

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

[cont...]

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IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

OPT = optical

INH = inhalation

PCP = physico-chemical properties

**Legal disclaimer:** 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.