ELECTROLUBE
THE SOLUTIONS PEOPLE

# SAFETY DATA SHEET
# RESIN REMOVER SOLVENT

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

## 1. Identification

### Product identifier

**Product name** RESIN REMOVER SOLVENT

**Product number** RRS-b, ERRS05L, ZE

### Recommended use of the chemical and restrictions on use

**Application** Cleaning agent.

**Uses advised against** At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

### Details of the supplier of the safety data sheet

**Supplier**

HK WENTWORTH-AMERICA
HK WENTWORTH-AMERICA
PO BOX 271347
FLOWER MOUND
TEXAS 75027
USA
info@hkw.co.uk

### Emergency telephone number

**Emergency telephone**

+1 202 464 2554 (USA only)
+44 1235 239670

## 2. Hazard(s) identification

### Classification of the substance or mixture

**EC No 1272/2008**

**Physical hazards** Flam. Liq. 2 - H225

**Health hazards** Eye Irrit. 2A - H319 STOT SE 3 - H336

**Environmental hazards** Not Classified

### Label elements

**Pictogram**

**Signal word** Danger

**Hazard statements**

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

# RESIN REMOVER SOLVENT

**Precautionary statements**

P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P240 Ground/ bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapor/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a poison center/ doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

**Contains** BUTANONE, ACETONE

**Other hazards**

This substance is not classified as PBT or vPvB according to current EU criteria.

## 3. Composition/information on ingredients

**Mixtures**

**1,3-DIOXOLANE** **30-60%**
CAS number: 646-06-0

**Classification**
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319

**BUTANONE** **30-60%**
CAS number: 78-93-3

**Classification**
Flam. Liq. 2 - H225
Eye Irrit. 2A - H319
STOT SE 3 - H336

**ACETONE** **5-10%**
CAS number: 67-64-1

**Classification**
Flam. Liq. 2 - H225
Eye Irrit. 2A - H319
STOT SE 3 - H336

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The Full Text for all Hazard Statements are Displayed in Section 16.

**Composition comments** Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

## 4. First-aid measures

### Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.

**Ingestion** Do not induce vomiting. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention.

**Skin Contact** Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Alcohol-resistant foam. Powder. Dry chemicals, sand, dolomite etc.

### Special hazards arising from the substance or mixture

**Specific hazards** No unusual fire or explosion hazards noted.

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### Advice for firefighters

**Protective actions during firefighting** Move containers from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapors.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

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**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. Collect and dispose of spillage as indicated in Section 13.

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from oxidizing materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Storage class** Flammable liquid storage.

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## 8. Exposure Controls/personal protection

### Control parameters

### Occupational exposure limits

**1,3-DIOXOLANE**

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm
Short-term exposure limit (15-minute): ACGIH

**BUTANONE**

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 590 mg/m³
Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 590 mg/m³
Short-term exposure limit (15-minute): ACGIH 300 ppm 885 mg/m³

**ACETONE**

Long-term exposure limit (8-hour TWA): ACGIH 250 ppm 594 mg/m³
Short-term exposure limit (15-minute): ACGIH 500 ppm 1187 mg/m³
A4
Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.
OSHA = Occupational Safety and Health Administration.
A4 = Not Classifiable as a Human Carcinogen.

**BUTANONE (CAS: 78-93-3)**

**DNEL** Industry - Dermal; Long term : 1161 mg/kg/day Industry - Inhalation; Long term : 600 mg/m³ Consumer - Dermal; : 412 mg/kg/day - Inhalation; : 106 mg/m³ - Oral; : 31 mg/kg/day

**PNEC** - Fresh water; 55.8 mg/l - Marine water; 55.8 mg/l - STP; 709 mg/l - Sediment; 284.7 mg/kg - Soil; 22.5 mg/kg

**ACETONE (CAS: 67-64-1)**

**DNEL** Industry - Dermal; Long term systemic effects: 186 mg/kg/day Industry - Inhalation; Long term systemic effects: 1210 mg/m³ Industry - Inhalation; Short term local effects: 2420 mg/m³ Consumer - Dermal; Long term systemic effects: 62 mg/kg/day Consumer - Inhalation; Long term systemic effects: 200 mg/m³

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| | |
|---|---|
| **PNEC** | - Fresh water; 10.6 mg/l - Marine water; 1.06 mg/l - Intermittent release; 21 mg/l - STP; 100 mg/l - Sediment (Freshwater); 30.4 mg/kg - Sediment (Marinewater); 3.04 mg/kg - Soil; 29.5 mg/kg |

**Exposure controls**

**Protective equipment**

| | |
|---|---|
| **Appropriate engineering controls** | Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. |
| **Eye/face protection** | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. EN166 |
| **Hand protection** | Use protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Nitrile rubber. Gloves should conform to EN374 |
| **Other skin and body protection** | Wear suitable protective clothing as protection against splashing or contamination. |
| **Hygiene measures** | Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. |
| **Respiratory protection** | If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. EN14387 |

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance** | Liquid. |
| **Color** | Colorless. |
| **Odor** | Characteristic. |
| **Flash point** | -17 (1.4 F)°C CC (Closed cup). |
| **Viscosity** | @ °C |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | There are no known reactivity hazards associated with this product. |
| **Stability** | Stable at normal ambient temperatures. |
| **Possibility of hazardous reactions** | Not determined. Will not polymerize. |
| **Conditions to avoid** | Avoid heat, flames and other sources of ignition. |
| **Materials to avoid** | Strong oxidizing agents. |

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| | |
|---|---|
| **Hazardous decomposition products** | Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. Toxicological Information

**Information on toxicological effects**

| | |
|---|---|
| **Inhalation** | May cause respiratory system irritation. |
| **Ingestion** | May cause stomach pain or vomiting. |
| **Skin Contact** | Product has a defatting effect on skin. Prolonged or repeated exposure may cause severe irritation. |
| **Eye contact** | Irritating to eyes. |

**Toxicological information on ingredients.**

**BUTANONE**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 2,193.0 |
| **Species** | Rat |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 5,000.0 |
| **Species** | Rabbit |

| | |
|---|---|
| **Inhalation** | Vapor may irritate respiratory system/lungs. Vapours may cause drowsiness and dizziness. |
| **Ingestion** | May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. |
| **Skin Contact** | Irritating to skin. Repeated exposure may cause skin dryness or cracking. |
| **Eye contact** | Irritating to eyes. |

**ACETONE**

**Acute toxicity - oral**

| | |
|---|---|
| **Acute toxicity oral ($LD_{50}$ mg/kg)** | 5,800.0 |
| **Species** | Rat |

**Acute toxicity - dermal**

| | |
|---|---|
| **Acute toxicity dermal ($LD_{50}$ mg/kg)** | 15,800.0 |
| **Species** | Rabbit |

## 12. Ecological Information

| | |
|---|---|
| **Ecotoxicity** | Not regarded as dangerous for the environment. |

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**Toxicity**

**Ecological information on ingredients.**

**BUTANONE**

| | |
|---|---|
| **Toxicity** | Not considered toxic to fish. |
| **Acute toxicity - fish** | $LC_{50}$, 96 hours: 3200 - 5600 mg/l, Fish |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 7060 mg/l, Daphnia magna |

**ACETONE**

| | |
|---|---|
| **Acute toxicity - fish** | LC50, 96 hours: 5540 mg/l, Onchorhynchus mykiss (Rainbow trout)<br>LC50, 96 hours: 11000 mg/l, Freshwater fish |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 12600 mg/l, Daphnia magna |
| **Acute toxicity - aquatic plants** | NOEC, 96 hours: 430 mg/l, Freshwater algae |

**Persistence and degradability**

**Persistence and degradability** There are no data on the degradability of this product.

**Ecological information on ingredients.**

**BUTANONE**

| | |
|---|---|
| **Persistence and degradability** | The product is readily biodegradable. |

**ACETONE**

| | |
|---|---|
| **Persistence and degradability** | The product is readily biodegradable. |

**Bioaccumulative potential**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Ecological information on ingredients.**

**BUTANONE**

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Mobility in soil**

**Ecological information on ingredients.**

**BUTANONE**

| | |
|---|---|
| **Mobility** | The product is soluble in water. |

**Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Ecological information on ingredients.**

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**BUTANONE**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

**Other adverse effects**

**Ecological information on ingredients.**

**BUTANONE**

**Other adverse effects** Not determined.

## 13. Disposal considerations

**Waste treatment methods**

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## 14. Transport information

**General** For US Domestic transportation this product is classified as a Consumer Commodity. For International transportation this product is classified as UN1993 FLAMMABLE LIQUID

**UN Number**

**UN No. (TDG)** 1993

**UN No. (IMDG)** 1993

**UN No. (ICAO)** 1993

**UN No. (DOT)** ID8000

**UN proper shipping name**

**Proper shipping name (TDG)** FLAMMABLE LIQUID, N.O.S. (1,3-DIOXOLANE, BUTANONE)

**Proper shipping name (IMDG)** CONSUMER COMMODITY

**Proper shipping name (ICAO)** CONSUMER COMMODITY

**Proper shipping name (DOT)** CONSUMER COMMODITY

**Transport hazard class(es)**

**DOT hazard class** 9

**DOT hazard label** 9

**TDG class** ORM-D (Other Regulated Material D).

**TDG label(s)** No DOT label requirement noted

**IMDG Class** 3

**ICAO class/division** 3

**Transport labels**

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**DOT transport labels**


**Packing group**

| | |
|---|---|
| **TDG Packing Group** | II |
| **IMDG packing group** | II |
| **ICAO packing group** | II |

**Environmental hazards**

**Environmentally Hazardous Substance**
No.

**Special precautions for user**

| | |
|---|---|
| **EmS** | F-E, S-E |

## 15. Regulatory information

## 16. Other information

| | |
|---|---|
| **Issued by** | Bethan Massey |
| **Revision date** | 9/28/2016 |
| **Revision** | 3 |
| **SDS No.** | 13126 |
| **Hazard statements in full** | H225 Highly flammable liquid and vapor.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness. |
| **NFPA - health hazard** | Irritation, minor residual injury. (1) |
| **NFPA - flammability hazard** | Extremely flammable. (4) |
| **NFPA - instability hazard** | Normally stable. (0) |
| **ACA HMIS Health rating.** | Slight hazard. (1) |
| **ACA HMIS Flammability rating.** | Extremely flammable. (4) |
| **ACA HMIS Physical hazard rating.** | Normally stable. (0) |
| **ACA HMIS Personal protection rating.** | B |