



## 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Product identifier**

**Product name** Res-X

**Other means of identification**

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

**Material Uses** Cleaner.  
**Uses advised against** Verify Applications

**Details of the supplier of the safety data sheet**

**Supplier**

LiveTools PTY Limited  
115 Young St. Carrington  
NSW 2294 Australia  
Telephone: 02 4017 0198

**Manufacturer**

Hangsterfer's Laboratories, Inc.  
175 Ogden Road  
Mantua, NJ 08051  
Phone 856-468-0216, Fax 856-468-0200  
Website: www.hangsterfers.com

**Emergency telephone number**

**Emergency telephone number** Livetools: 02 4017 0198

## 2. Hazards Identification

Not classified as hazardous according to criteria of NOHSC.

**Classification**

Acute toxicity - Oral

Category 4

**Label Elements**

### EMERGENCY OVERVIEW

**WARNING**

**Hazard statements**

HARMFUL IF SWALLOWED



**Appearance** Colorless

**Physical state** Liquid

**Odor** Mild

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

- No additional remarks

**3. Composition/information on Ingredients**

**Chemical Family** Straight Oil Type.

**4. First Aid Measures****First aid measures**

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**Skin contact** Wash skin with soap and water. Consult a physician if necessary.

**Inhalation** Remove to fresh air. Consult a physician if necessary.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Consult a physician if necessary. Rinse mouth.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. Fire-Fighting Measures****Suitable extinguishing media**

Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products** Carbon oxides.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Remove all sources of ignition. Avoid contact with skin and eyes. Wear boots, gloves and protective suit when handling large spills. Ensure adequate ventilation.

**Other Information** Report spills as required to the appropriate authorities.

**Environmental precautions**

**Environmental precautions** No unusual hazard.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

**Methods for Clean-up** Take up mechanically, placing in appropriate containers for disposal.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling** Avoid contact with eyes. Keep container in a well-ventilated place. Do not puncture, crush or incinerate containers.

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

**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.

**Incompatible materials** Acids and oxidizing agents.

## 8. Exposure Controls/Personal Protection

**Control parameters**

**Exposure guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering controls** Use in well ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below the recommended mineral oil mist exposure limits (ACGIH TLV TWA: 5 mg/m<sup>3</sup>; ACGIH TLV STEL: 10 mg/m<sup>3</sup>; OSHA PEL TWA: 5 mg/m<sup>3</sup>).

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Safety glasses with side-shields.

**Skin and Body Protection** Use protective gloves and clothing if contact with product is likely.

**Respiratory protection** If personal exposure levels cannot be maintained below accepted exposure limits, NIOSH/MSHA approved respiratory protection should be worn.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Colorless	<b>Odor threshold</b>	No information available
<b>Color</b>	Colorless		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	Not applicable	
<b>Melting point / freezing point</b>	No information available	
<b>Boiling point</b>	230 °C / 446 °F	
<b>Flash point</b>	98 °C / 208	(SCC, ASTM D3278)
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		

<b>Upper flammability limit</b>	No unusual hazard
<b>Lower flammability limit</b>	No unusual hazard
<b>Vapor pressure</b>	<0.01 mmHg @ 20 °C
<b>Vapor density</b>	> 5
<b>Specific gravity</b>	0.91 - 0.93
<b>Water solubility</b>	negligible
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No unusual hazard
<b>Decomposition temperature</b>	No unusual hazard
<b>Kinematic viscosity</b>	3 cSt @ 40°C / 36 SUS @ 100°F
<b>Dynamic viscosity</b>	No information available
<b>VOC Content, % Vol</b>	Request additional information

## 10. Stability and Reactivity

### Reactivity

No unusual hazard

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal use conditions.

**Hazardous polymerization** Hazardous polymerization does not occur.

### Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### Incompatible materials

Acids and oxidizing agents.

### Hazardous decomposition products

Carbon oxides.

## 11. Toxicological Information

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	No unusual hazard.
<b>Eye contact</b>	No unusual hazard.
<b>Skin contact</b>	No unusual hazard.
<b>Ingestion</b>	May be harmful if swallowed.

### Information on toxicological effects

**Symptoms** None known.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	No unusual hazard.
<b>Serious eye damage/eye irritation</b>	No unusual hazard.
<b>Sensitization</b>	No known effect.
<b>Mutagenic Effects</b>	No known effect.
<b>Carcinogenicity</b>	No known effect.
<b>Reproductive effects</b>	No known effect.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.

<b>Chronic toxicity</b>	No known effect.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

<b>Oral LD50</b>	> 3700 mg/kg (rat)
<b>Dermal LD50</b>	> 2000 mg/kg

**12. Ecological Information****Ecotoxicity**

No unusual hazard

**Persistence/Degradability**

Readily biodegradable

**Bioaccumulation/Accumulation**

No unusual hazard.

**Other adverse effects**

None known

**13. Disposal Considerations****Waste treatment methods**

<b>Waste Disposal Method</b>	Dispose of in accordance with federal, state and local regulations.
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<b>Contaminated packaging</b>	Do not reuse empty containers.
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**14. Transport Information****DOT**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

**TDG**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Description</b>	Not regulated

**IMDG/IMO**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Labels</b>	Not regulated

<b>Description</b>	Not regulated
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**ADR/RID**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>ADR/RID-Labels</b>	Not regulated
<b>Description</b>	Not regulated

**IATA**

<b>UN-No</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard Class</b>	Not regulated
<b>Labels</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Description</b>	Not regulated

PG\* : Packing group

## 15. Regulatory Information

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. Regulations & Inventories****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

No regulatory requirements found. All components of this product are either listed on the TSCA inventory or are exempt from listing requirements.

U.S. EPA Label information

EPA Pesticide registration number Not applicable

CANADA

**16. Other Information**

<u>NFPA</u>	HEALTH 1	Flammability 1	Instability 0	Physical hazard -
<u>HMIS</u>	HEALTH 1	Flammability 1	Physical Hazards 0	Personal Protection -

Issue Date	02-01-2016
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Revision Summary	

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of SDS**