

## Safety Data Sheet

### Section 1

### Product and Company Identification

**Common Name**

100 Red Unity Oil

**Product Model Number**

923RU

**Product File Number**

920:405-923RU-11

**Product Use**

Indicating Fluid

**Manufacturer's Name**

Meriam

**Emergency Phone Numbers**

1-800-255-3924 (US), + 01 813 248 0585 (International)

**Address**

10920 Madison Ave.

**Engineering Control Data**

MSDS - A35797-1, Rev. P, EO 7519

Drawing - A35313

**City, State, Zip**

Cleveland, Ohio 44102

**Date Prepared**

23-Nov-2015

### Section 2

### Hazards Identification

#### Classification of the substance or mixture

**Acute toxicity, Oral**

Category 4

**Acute toxicity, Inhalation**

Category 2

**Aspiration hazard,**

Category 1

**Skin corrosion/irritation,**

Category 2

**Serious eye damage/eye irritation,**

Category 2B

**Specific target organ toxicity-single exposure,**

Category3 Respiratory system

**Acute aquatic toxicity,**

Category 1

**Chronic aquatic toxicity,**

Category 1

**Pictogram:**



**Signal word:**

WARNING.

## Hazard statements

<b>H304</b>	May be fatal if swallowed and enter airways.
<b>H315</b>	Causes skin irritation.
<b>H330</b>	Fatal if inhaled.
<b>H319</b>	Causes serious eye irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.

## Precautionary statements

### Prevention

<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapors/spray.
<b>P264</b>	Wash skin thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P273</b>	Avoid release to the environment.
<b>P280</b>	Wear eye protection/face protection.
<b>P280</b>	Wear protective gloves.
<b>P301 + P312 + P330</b>	<b>If swallowed:</b> <ul style="list-style-type: none"><li>• Call a <b>Poison Center</b> or doctor/physician if you feel unwell.</li><li>• Rinse mouth.</li></ul>
<b>P302 + P352</b>	<b>If on skin:</b> <ul style="list-style-type: none"><li>• Wash with plenty of soap and water.</li></ul>
<b>P304 + P340 + P312</b>	<b>If inhaled:</b> <ul style="list-style-type: none"><li>• Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li><li>• Call a <b>Poison Center</b> or doctor/physician if you feel unwell.</li></ul>
<b>P305 +P351 + P338</b>	<b>If in eyes:</b> <ul style="list-style-type: none"><li>• Rinse cautiously with water for several minutes.</li><li>• Remove contact lenses, if present and easy to do. Continue rinsing.</li></ul>
<b>P332 + P313</b>	<b>If skin irritation occurs:</b> <ul style="list-style-type: none"><li>• Get medical advice/attention.</li></ul>
<b>P337 + P313</b>	<b>If eye irritation persists:</b> <ul style="list-style-type: none"><li>• Get medical advice/attention.</li></ul>
<b>P362</b>	Take off contaminated clothing and wash before reuse.
<b>P391</b>	Collect spillage.
<b>P403 + P233</b>	<ul style="list-style-type: none"><li>• Store in a well-ventilated place.</li><li>• Keep container tightly closed.</li></ul>
<b>P405</b>	Store locked up.
<b>P501</b>	Dispose of contents/container to an approved waste disposal plant.
<b>Hazards not otherwise classified:</b>	None.

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## Section 3

## Composition/Information on Ingredients

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**1. Chemical name:** 1-Chloronaphthalene

**CAS No:** 90-13-1

**OSHA/PEL:** NA

**ACGIH/TLV:** NA

**% :** 55

**2. Chemical name:** Hydrotreated Petroleum Oil

**CAS No:** 64742-65-0

**OSHA/PEL:** 5 mg/m<sup>3</sup> as mist

**ACGIH/TLV:** 5 mg/m<sup>3</sup> as mist

**% :** 45

**3. Chemical name:** Red Dye

**CAS No:** 4477-79-6

**OSHA/PEL:** NE\*

**ACGIH/TLV:** NE\*

**% :** Trace

\* Not established.

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## Section 4

## First Aid Measures

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**Eye contact:**

- Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open.
- If contact lens is present, **do not** delay irrigation or attempt to remove lens.
- Get medical attention if irritation develops and persists.  
**Ophthalmologist.**

**Skin contact:**

- Wash off with soap and plenty of water.
- If skin irritation occurs, get medical advice/attention.

**Inhalation:**

- If product mist or vapor causes respiratory or distress, move the exposed person to fresh air immediately.
- If breathing is difficult or irregular, administer oxygen.
- If respiratory arrest occurs, start artificial respiration by trained personnel.
- Loosen tight fitting clothing such as collar, tie, belt or waistband.
- Seek immediate medical attention.

- Ingestion:**
- Rinse mouth with water if victim is conscious.
  - Remove dentures if present.
  - Do not induce vomiting unless directed to do so by medical personnel.
  - If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
  - Never give anything by mouth to an unconscious or convulsing person.
  - Immediately call a **Poison Center** or doctor.

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## Section 5 Fire Fighting Measures

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### Extinguishable media

- Suitable methods of extinction:**
- Foam, Carbon dioxide (CO<sub>2</sub>).
  - Water fog, Dry chemical.

**Unsuitable methods of extinction:** Water jets and high pressure may spread the fire.

- Special hazards arising from the substance or mixture:**
- Fire may produce irritating, corrosive and/or toxic gases including carbon oxides, hydrogen chloride gas.

- Unusual fire hazards:**
- Carbon oxides, toxic fumes of chlorides, formed when burned.
  - In the event of fire and or explosion do not breathe fumes.

- Advice for firefighters:**
- In case of fire and/or explosion, do not breath fumes.
  - Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
  - Move containers from fire area if you can do so without risk.
  - Do not get water inside container.
  - Some of these material, if spilled, may evaporate leaving a flammable residue.

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## Section 6 Accidental Release Measures

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- Personal precautions, protective equipment, and emergency procedures:**
- Keep unnecessary personnel away.
  - Keep upwind.
  - Keep out of low areas.
  - Ventilate closed spaces before entering them.
  - Do not touch or walk through spilled material.
  - Avoid breathing vapors, mist or gas.

- Methods and materials for containment and clean up:**
- Stop the flow of material, if this is without risk.
  - Absorb with non-combustible absorbent material like vermiculite, sand or earth to soak up product and place in container for later disposal.

- Environmental precautions:**
- Do not let product enter drains.
  - Discharge into environment must be avoided.
  - If this material is spilled into navigable waters and creates a visible sheen, it is reportable tot the National Response Center.

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- Waste disposal:**
- Place in an appropriate disposal facility in compliance with federal, state, and local regulations.
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## Section 7 Handling and Storage

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- Handling and Storage:**
- Skin and eye contact should be avoided as good industrial practice.
  - Wearing of protective gloves and eye protection is recommended.
  - Wash hands and contaminated skin area after handling.
  - Follow all warnings and precautions even after container is emptied.
  - Wash thoroughly after handling or at the end of the shift.

- Other precautions:**
- Keep container tightly closed when not in use.
  - Store in a dry well ventilated place.
  - Containers which are opened must be carefully resealed and kept upright to prevent leakage.
  - Keep away from sources of ignition.

- Section 7 Notes:**
- Containers should not be opened until ready for use.
  - Use clean non-sparking equipment and tools when handling.
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## Section 8 Exposure Controls/Personal Protection

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- Engineering Controls:**
- All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).
  - Wash hands before breaks and at the end of workday.

- Eye/face protection:**
- Wear chemical goggles or face shield if there is likelihood of contact with eyes.
  - Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
  - Eyewash fountains and safety showers should be available for emergency use.

- Protective gloves:**
- For the best protection wear compatible chemical resistant gloves.
  - Contact the supplier of CE approved gloves

- Additional Protective Clothing Or Equipment:**
- Wear additional protective garments were necessary.
  - The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the particular workplace.
  - Boots, aprons, or chemical suits should be used when necessary to prevent skin contact.

- Respiratory protection:**
- Not typically required.
  - If exposure exceeds permissible exposure limits wear a self-contained breathing apparatus in compliance with NIOSH (US) or CEN (EU)

- Ventilation:**
- General (mechanical) room ventilation is generally satisfactory.
  - Special, local ventilation may be needed at points where vapors can be expected to exceed exposure limits.

- Control of environmental exposure:**
- Prevent further leakage or spillage if safe to do so.
  - Do not let the product enter drains.
  - Discharge into the environment must be avoided.
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## Section 9

## Physical and Chemical Properties

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<b>Appearance</b>	Liquid
<b>Color</b>	Red
<b>Odor</b>	Moth ball odor
<b>Odor threshold</b>	No data available
<b>PH</b>	No data available
<b>Specific gravity</b>	1.00 at 22.6 °C
<b>Melting point/freezing point</b>	Data unavailable
<b>Boiling point</b>	111 °C (231 °F)
<b>Flash point</b>	Data unavailable.
<b>Evaporation rate</b>	No data available.
<b>Flammability</b>	No data available.
<b>Vapor pressure</b>	No data available.
<b>Vapor density</b>	No data available.
<b>Water solubility</b>	No data available.
<b>Auto-ignition temperature</b>	No data available.
<b>Decomposition temperature</b>	No data available.
<b>Viscosity</b>	No data available.
<b>Explosive properties</b>	No data available.
<b>Oxidizing properties</b>	No data available.
<b>Solubility in water</b>	No data available.

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## Section 10

## Stability and Reactivity

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<b>Stability:</b>	Stable under normal conditions.
<b>Reactivity:</b>	No data available.
<b>Conditions to avoid:</b>	High temperature and open flame.
<b>Possibility of hazardous reactions:</b>	<ul style="list-style-type: none"><li>• None under normal application/processing.</li><li>• Hazardous polymerization does not occur.</li></ul>
<b>Incompatible (Materials to avoid):</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon oxides, various hydrocarbons and Hydrogen Chloride gas may be formed during combustion.
<b>Hazardous polymerization:</b>	Will not occur.

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## Section 11

## Toxicological Information

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### Acute toxicity

**Product:**

**Acute oral Toxicity:** No data available.

**Acute inhalation toxicity:** No data available.

**Acute dermal toxicity:** No data available.

**Components: distillates (petroleum)**

**Acute oral Toxicity:** LD50 (rat): > 2 000 mg/kg

**Acute inhalation toxicity:** LC50 (Rat): 4.1 mg/L

**Acute dermal toxicity:** LD50 (Rabbit) : > 5 000 mg/kg

**Skin corrosion/irritation:** No data available.

**Serious eye damage/eye irritation:** No data available.

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** Data unavailable.

**Reproductive toxicity:** No data available.

**STOT - single exposure:** Inhalation-may cause respiratory irritation.

**STOT – repeated exposure:** No data available.

**Aspiration hazards:** No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## Section 12

## Ecological Information

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### Toxicity

**Toxicity to fish:** LC50 – *Lepomis macrochiris* – 2.3 mg/L – 96 h

**Toxicity to daphnia and other aquatic invertebrates:** EC50 – *Daphnia magna* (Water flea) – 0.81 mg/L – 48 h

**Persistence and degradability:** No data available.

**Bio accumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:**

- An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
- Very toxic to aquatic life.

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## Section 13

## Disposal Considerations

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Dispose of all cleanup materials in accordance with all Local, State, and Federal regulations.

Do not flush to surface water or drains.

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## Section 14

## Transport Information

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<b>DOT (US)</b>	Not dangerous goods.
<b>Proper Shipping Name:</b>	N/A.
<b>Hazard Class or Division:</b>	N/A.
<b>Identification Number:</b>	N/A.
<b>Packing Group:</b>	N/A.
<b>Packing Authorization:</b>	N/A.
<b>IATA Packing Instructions:</b>	N/A.

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## Section 15

## Regulatory Information

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### Safety, health and environmental regulations specific for substances or mixtures

#### US Federal Regulations

**SARA Section 302 Extremely Hazardous Substance (EHS):** This product does not contain any components regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

**SARA Section 311/312 Hazard Communication Standard (HCS):** This product is regulated under Section 311/312 HCS (40 CFR 370) as:

- Acute Health Hazard.
- Fire Hazard.

**SARA 313 Toxic Chemical List (TCL)** This product does not contain greater than 1.0 % of the substances subject to the reporting requirements of Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 and 40 CFR.

**TSCA (Toxic Substance Control Act)** Data unavailable.

#### US State Regulations:

**California Proposition 65:** Data unavailable.

**Pennsylvania Right to Know Components:** 1-Chloronaphthalene, CAS# 90-13-1

**New Jersey Right to Know Components:** 1-Chloronaphthalene, CAS# 90-13-1

**International regulations:** Not provided.

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**This product is for industrial and laboratory use only.**

- Do not store in open, unlabeled or mislabeled containers.
  - Store in cool, dry place with adequate ventilation.
  - Keep away from flames and high temperatures.
  - For personal hygiene protection, we recommend that employees wash thoroughly after handling product.
  - Always wash up before eating, smoking, and using toilet facilities.
  - Keep out of reach of children.
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- HMIS® rating: HEALTH - 2 FLAMMABILITY - 2 REACTIVITY - 1.
  - NFPA rating: HEALTH - 2, FLAMMABILITY -1, REACTIVITY - 0
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