



QUICK IDENTIFIER

(as used in label and list)

100 Red Unity Oil

MATERIAL SAFETY DATA SHEET

SECTION I PRODUCT AND COMPANY IDENTIFICATION

COMMON NAME

100 Red Unity Oil

PRODUCT FILE NUMBER

920:405-923RU-11

MANUFACTURER'S NAME

Meriam Instrument

ADDRESS

10920 Madison Ave.

CITY, STATE, ZIP

Cleveland, Ohio 44102

PRODUCT MODEL NUMBER

923RU

PRODUCT USE

Indicating Fluid

EMERGENCY PHONE NUMBERS

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

ENGINEERING CONTROL DATA

MSDS - A35797-1, Rev. O, EO 7393

Drawing - A35313

DATE PREPARED

05-Nov-2014

SECTION II HAZARDS IDENTIFICATION

ACUTE

EYES

May cause moderate irritation, redness, and tearing.

SKIN CONTACT

May cause slight irritation. May cause severe irritation with repeat or prolonged contact.

INGESTION

Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

INHALATION

May cause irritation of nasal and respiratory passages.

CHRONIC

CHRONIC EFFECTS OF EXPOSURE

May cause Liver and Kidney damage. To the best of our knowledge all toxicological properties have not been thoroughly investigated.

SECTION III COMPOSITION/INFORMATION ON INGREDIENTS

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: 5mg/m³ as mist
ACGIH/TLV: 5mg/m³ as mist
% : 45

4.Chemical Name: Red Dye
CAS No: 4477-79-6
OSHA/PEL: NE*
ACGIH/TLV: NE*
% : Trace

*Not Established

SECTION IV FIRST AID MEASURES

EYES

Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

SKIN CONTACT

Remove contaminated clothing and wash off skin with soap and water. Wash contaminated clothes. If irritation develops, contact a physician.

INHALATION

Remove from exposure. If not breathing give artificial respiration. If breathing is difficult, give Oxygen. Seek medical attention.

INGESTION

Give large amounts of water to drink. DO NOT INDUCE VOMITING. Seek medical attention immediately.

SECTION V FIRE FIGHTING MEASURES

FLASH POINT

285° F

METHOD USED

Closed Cup

FLAMMABLE LIMITS (in Air % by Vol.)

LEL

NA

UEL

NA

AUTO-IGNITION TEMPERATURE

NA

EXTINGUISHER MEDIA

CO₂, Dry Chemical, Polymer Foam

SPECIAL FIRE FIGHTING PROCEDURES

Do not extinguish with water. Evacuate area of all unnecessary personnel. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Emits toxic fumes under fire conditions.

SECTION VI ACCIDENTAL RELEASE MEASURES

RESPONSE TO SMALL SPILLS

Absorb with non-combustible absorbent material. Dispose of properly, prevent from entering sewers. The product is a non-hazardous waste when spilled material is disposed of defined in Resource Conservation Recovery Act (RCRA) regulations (40CFR261).

WASTE DISPOSAL

Place in an appropriate disposal facility in compliance with Federal, State, and Local regulations.

SECTION VII HANDLING AND STORAGE

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: Store in cool dry place away from strong oxidizers and acids. Keep container tightly closed when not in use. All handling equipment should be properly grounded to prevent the build-up of electrostatic charges. Storage area should be equipped with a CO2 system. Handle in accordance with good industrial hygiene and safety practices.

SECTION 7 NOTES: Containers should not be opened until ready for use. Use clean non-sparking equipment and tools when handling.

SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION

Not typically required. If exposure exceeds permissible exposure limits wear a self-contained breathing apparatus in compliance with NIOSH/MSHA specifications. Comply with 29CFR 1910.134.

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.

PROTECTIVE GLOVES

For the best protection wear compatible chemical resistant gloves. Wear additional protective garments were necessary.

EYE PROTECTION

Wear chemical goggles if there is likelihood of contact with eyes.

ADDITIONAL PROTECTIVE CLOTHING OR EQUIPMENT

Boots, aprons, or chemical suits should be used when necessary to prevent skin contact. Eye wash fountains and safety showers should be available for emergency use.

SECTION IX PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT

231°F

SPECIFIC GRAVITY (H₂O=1)

1.00 @ 22.6°C

VAPOR PRESSURE (20°C)

<1 mmHg

VAPOR DENSITY (AIR=1)

NE

EVAPORATION RATE (BuAc=1)

NE

APPEARANCE & ODOR

Red color, moth ball odor

SOLUBILITY IN WATER

NA

MELTING POINT

NE

REACTIVITY IN WATER

NA

pH

NA

SECTION X STABILITY AND REACTIVITY

STABILITY

Stable

CONDITION TO AVOID

Avoid exposure to heat

INCOMPATIBILITY (Materials to Avoid)

Oxygen and strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides, various hydrocarbons and Hydrogen Chloride gas may be formed during combustion.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID

NA

SECTION XI TOXICOLOGICAL INFORMATION

Chemical Listed as Carcinogen or Potential Carcinogen**National Toxicology Program**

No

I.A.R.C. Monographs

No

OSHA

No

SECTION XII ECOLOGICAL INFORMATION

Environmental Fate:

When released into the soil this material is not expected to biodegrade. When released into the soil this material is not expected to leach into groundwater. When released into water, this material may evaporate to a moderate extent. When released into the air this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of 1 and 10 days.

Environmental Toxicity:

This material may be toxic to aquatic life. The LC 50/96 hour values for fish are less than 1 mg/l.

SECTION XIII DISPOSAL CONSIDERATIONS

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

SECTION XIV TRANSPORT INFORMATION

Proper Shipping Name:	N/A
Hazard Class or Division:	N/A
Identification Number:	N/A
Packing Group:	N/A
Packing Authorization:	N/A
IATA Packing Instructions:	N/A

SECTION XV REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not Provided

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

SARA Section 304 CERCLA Hazardous Substances: This product does not contain any components regulated under section 304 (40 CFR 370) as hazardous chemicals for emergency release.

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 Section 313 Toxic Chemical List (TCL): This product does not contain any components listed on the Section 313 Toxic Chemical List:

Clean Water Act CWA – Priority Pollutants: Not Provided

STATE REGULATIONS: California Proposition 65: Not Provided

INTERNATIONAL REGULATIONS: Not Provided

SECTION XVI OTHER INFORMATION

- 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.

-HMIS rating HEALTH - 2 FLAMMABILITY - 2 REACTIVITY - 1

DISCLAIMER OF LIABILITY

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of the results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. User of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS. It is the responsibility of the user to comply with all applicable federal, state, local laws and regulations.
