



Quick Identifier

(as used in label and list)

827 Red Oil

Safety Data Sheet

Section 1

Product and Company Identification

Common Name

827 Red Oil

Product Model Number

923RO

Product File Number

920:405-922WA-10

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 - A35793-1, Rev. 0, EO 7519

Drawing - A35312

City, State, Zip

Cleveland, Ohio 44102

Date Prepared

06-Nov-2015

Section 2

Hazards Identification

Classification of the substance or mixture

GHS Hazards

Acute toxicity, Aspiration:: Category 1

Serious eye damage/eye irritation: Category 2B

Acute/Chronic aquatic toxicity: Category 2

Flammable liquids: Category 3

Skin irritation: Category 2

Carcinogenicity: Category 2

Specific target organ toxicity: Category 3 (single exposure)

Hazards Not Otherwise Classified (HNOC) Static accumulating flammable liquid.

Pictogram:

Hazard symbols:

**Signal word:**

DANGER.

Hazard statements

H304	May be fatal if swallowed and enter airways.
H315	Causes skin irritation.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long-lasting effects.

Precautionary statements**Prevention**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P308+311	If exposed or concerned: <ul style="list-style-type: none"> • Call a Poison Center/ doctor.
P303+361+353	If on skin (or hair): <ul style="list-style-type: none"> • Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338	If in eyes: <ul style="list-style-type: none"> • Rinse cautiously with water for several minutes. • Remove contact lenses, if present and easy to do. • Continue rinsing.
P332+313	If skin irritation occurs: <ul style="list-style-type: none"> • Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P304 + P340	If inhaled: <ul style="list-style-type: none"> • Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.

P301 + P310	If swallowed:
	<ul style="list-style-type: none"> • Immediately call a Poison Center or doctor.
P331	Do not induce vomiting.
P370 + P378	In case of fire:
	<ul style="list-style-type: none"> • Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
P391	Collect spillage.
Storage:	
P403+P233	<ul style="list-style-type: none"> • Store in a well-ventilated place. • Keep container tightly closed.
P403 + P235	<ul style="list-style-type: none"> • Store in a well-ventilated place. • Keep cool.
P405	<ul style="list-style-type: none"> • Store locked up.
Disposal:	
P501	<ul style="list-style-type: none"> • Dispose of contents/container to an approved waste disposal plant.
Hazards not otherwise classified:	None.

Section 3

Composition/Information on Ingredients

1. Chemical name:	Deodorized Kerosene
CAS No:	8008-20-6
OSHA/PEL:	Not established.
ACGIH/TLV:	200 mg/m3 as mist
% :	>37.4
2. Chemical name:	Hydrotreated Petroleum Oil
CAS No:	64742-565-0
OSHA/PEL:	5 mg/m ³ as mist
ACGIH/TLV:	5 mg/m ³ as mist
% :	>62.4
3. Chemical name:	1-Chloronaphthalene
CAS No:	90-13-1
OSHA/PEL:	Not established.
ACGIH/TLV:	Not established.
% :	<1
4. Chemical name:	Red Dye
CAS No:	4477-79-6
OSHA/PEL:	Not established.
ACGIH/TLV:	Not established.
% :	Trace

Section 4

First Aid Measures

Eye contact:	<ul style="list-style-type: none">• Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open.• Remove contact lenses after the first 2 minutes and continue rinsing.• Seek immediate medical attention, preferably from an ophthalmologist.
Skin contact:	<ul style="list-style-type: none">• Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes.• If irritation persists, seek medical attention.
Inhalation:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• 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.• Give 1 to 2 capfuls of water if victim is conscious, alert and able to swallow.• Never give anything by mouth to an unconscious or convulsing person.• Immediately call a Poison Center or doctor.

Section 5

Fire Fighting Measures

Extinguishable media

- Suitable methods of extinction:**
- Foam, Carbon dioxide (CO₂).
 - 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:**
- This product has been determined to be a flammable liquid.
 - May accumulate electrostatic charge and ignite or explode.
 - Vapors may travel along the ground and be moved by ventilation and ignited by many sources pilot lights, sparks, electric motors, static discharge or other ignition sources at locations distant from material handling.
 - Flashback can occur along the vapor trail.

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

- Explosion hazards:**
- Not considered to be an explosion hazard.

Advice for firefighters:

- Full protective equipment including self-contained breathing apparatus should be used.
- Avoid using straight water streams.
- Water spray and foam may be applied carefully to avoid frothing and foam as far as a distance as possible.
- Avoid excessive water spray application.
- Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material.
- If possible, water contaminated by this material should be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

NFPA:

Health-1

Flammability- 2

Reactivity- 0

Section 6**Accidental Release Measures**

Personal precautions, protective equipment, and emergency procedures:

- Evacuate non-essential personnel.
- Wear all appropriate protective equipment designated in **Section 8**.
- **Do not** breathe vapors or aerosols.
- Ventilate the area.
- Do not get material on skin or clothing.
- Eliminate all sources of ignition.
- All contaminated surfaces will be slippery.

Environmental precautions:

- Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers, or waterways.
- Advise authorities and National Response Center if the product has entered a water course or sewer and creates a visible sheen.

Methods and materials for containment and clean up:

- Cover drains and contain spill.
- Cover spill with a large quantity of inert absorbent.
- Do not use combustible material such as sawdust.
- Shovel or sweep up material and place into an approved container for proper disposal.
- When recovering free liquids ensure all equipment is grounded and bonded.
- Use only non-sparking tools.
- Do not allow material or runoff from rinsing contaminated areas to enter floor drains or storm drains and ditches that lead to waterways.
- Dispose of according to state and federal regulations.

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**

Conditions for safe 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.
- Do not expose to heat open flames, strong oxidizers or other sources of ignition. **No smoking.**
- Storage area should be equipped with 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, ensure all equipment is grounded and bonded.

Section 8

Exposure Controls/Personal Protection

Exposure Controls

Engineering Measures:

- Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.
- Use adequate ventilation.
- Local exhaust is preferable.
- Refer to **Section 7** for additional data.

Individual protection measures:

- Wear protective clothing to prevent repeated or prolonged contact with product.
- Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substance handled.
- The chemical resistance of the protective equipment should be inquired at the representative supplier.

Hygiene measures:

- Facilities storing or using this material should be equipped with an eyewash station and safety shower.
- Change contaminated clothing .
- Preventative skin protection is recommended.
- Wash hands thoroughly after use, before eating, drinking or using lavatory.

Eye/face protection:

- Wear protective goggles or safety glasses with non-perforated side shields and face shield.
- Refer to 29 CFR 1910.133, ANSI Z87.4 or Standard EN 166.

Hand protection:

- Wear gloves recommended by glove supplier for protection against materials in **Section 3**.
- Glove should be impermeable to chemicals and oil.
- Breakthrough time should be greater than the intended use period.

Respiratory protection:

- Always use approved respirator when vapor/aerosols are generated.
- Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
- If the respirator is the sole means of protection, use a full-face supplied air respirator.
- Use respirators and components tested and approved under the appropriate government standards such as NIOSH (US) or CEN (EU).

Additional protective clothing or equipment:	<ul style="list-style-type: none"> 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.
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Section 9 Physical and Chemical Properties

Appearance:	Red color.
Odor:	Mild.
Odor threshold:	No data available.
pH:	No data available.
Freezing/melting point, range:	0 °C to 2 °C (32 °F to 35.6 °F)
Initial Boiling point:	111 °C to 187 °C (232 °F to 370 °F)
Evaporation rate:	Not applicable.
Flammability (solid, gas) :	No data available.
Flash point:	61 °C (142 °F)
Autoignition temperature:	No data available.
Decomposition temperature:	No data available.
Lower explosive limit (LEL):	1.1
Upper explosive limit:	6.0
Vapor pressure:	1.0 mmHg at 20 °C
Vapor density:	No data available
Specific gravity:	0.827 at 15.1 °C
Viscosity:	No data available.
Solubility in water:	No data available.
Partition coefficient: n-Octanol/water:	No data available.
Volatiles by volume at 21 °C:	No data available.
Other data:	No data available.

Section 10 Stability and Reactivity

Reactivity:	No specific test data related to reactivity is available for this product.
Chemical stability:	<ul style="list-style-type: none"> Stable when stored under the recommended storage conditions. Stable when handled under normal ambient temperature and working environments.
Possibility of hazardous reactions:	<ul style="list-style-type: none"> None under normal application/processing. Hazardous polymerization does not occur.
Conditions to avoid:	Temperature extremes, open flame, sources of ignition.
Incompatible materials:	Oxygen and strong oxidizing agents.
Hazardous decomposition products:	Will not occur.

Section 11

Toxicological Information

Acute toxicity

LD50, Oral-Rat:	> 2,000 mg/kg
LC50, Inhalation-Rat	<ul style="list-style-type: none">• Exposure time: 4 hours.• 4.1 mg/L
LD50, Derma-Rabbit:	> 2,000 mg/kg
Skin corrosion/irritation:	Produces skin irritation upon prolonged or repeated exposures.
Eye irritation/corrosion:	Causes mild eye irritation
Ingestion:	<ul style="list-style-type: none">• May be fatal if swallowed or vomited and enters airways.• May cause irritation of the mouth, throat, and gastrointestinal tract.
Inhalation:	High vapor concentrations may produce irritation of the respiratory system, headache, giddiness, vertigo, and anesthetic stupor.
Genotoxicity in vitro:	No data available.
Mutagenicity	No data available.
Specific target organ toxicity – single exposure:	Central nervous system.
Specific target organ toxicity – repeated exposure:	Not classified.
Aspiration hazard:	May be fatal if swallowed or vomited and enters airways.

Carcinogen or potential carcinogen

National Toxicology Program:	No.
I.A.R.C Monographs:	No.
OSHA:	No.

Section 12

Ecological Information

Toxicity:	Liquid can be toxic to aquatic life.
Persistent and degrade in the environment:	Not readily biodegradable.
Bioaccumulative potential:	Not provided.
Mobility in soil:	May partition into soil.
Results of PBT and vPvB assessment:	No data available.
Other adverse effects:	Additional ecological information: <ul style="list-style-type: none">• Do not allow material to run into surface waters, wastewaters, or soil.• An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13

Disposal Considerations

Waste treatment methods/disposal methods:

- The generation of waste should be avoided or minimized whenever possible.
- Empty containers or liners may retain some product residues.
- This material and its container must be disposed of in a safe way.
- Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
- Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
- Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Contact a licensed professional waste disposal service to dispose of this material along with any containment and cleanup materials.

Hazard waste:

The classification of this product is a non-hazardous waste when disposed of as defined in Resource Conservation Recovery Act (RCRA) regulations (40CFR261).

Section 14

Transport Information

Proper Shipping Name:	Kerosene
Hazard Class or Division:	3
Identification Number:	UN1223
Packing Group:	III
Packing Authorization:	DOT 49 CFR 173.150 & 173.203
IATA Packing Instructions:	

Section 15

Regulatory Information

Safety, health and environmental regulations specific for substances or mixtures

US Federal Regulations

TSCA (Toxic Substance Control Act)	All chemical substances in this product are either listed on the TSCA inventory or are in compliance with the TSCA Inventory exemptions.
SARA Section 311/312 Hazard Categories:	Acute health hazard, chronic health hazard, fire hazard.
SARA Section 302/304 Extremely Hazardous Substance:	None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.
SARA 313 Toxic Chemical List (TCL)	This product may contain components, which exceeds the minimum threshold, and as such may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Clean Water Act (CWA) – Priority Pollutants	Not Provided.
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US State Regulations:**California Proposition 65:** Component: naphthalene listed carcinogen.

Section 16 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.
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- HMIS® rating: HEALTH - 2 FLAMMABILITY - 2 REACTIVITY - 1.
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