



QUICK IDENTIFIER
(as used in label and list)
190 Red Fluid

MATERIAL SAFETY DATA SHEET

SECTION I PRODUCT AND COMPANY IDENTIFICATION

COMMON NAME

190 Red Fluid

PRODUCT FILE NUMBER

920:405-923FL-9

MANUFACTURER'S NAME

Meriam Instrument

ADDRESS

10920 Madison Ave.

CITY, STATE, ZIP

Cleveland, Ohio 44102

PRODUCT MODEL NUMBER

923FL

PRODUCT USE

Indicating Fluid

EMERGENCY PHONE NUMBERS

1-800-424-9300 (US), 1-703-527-3887 (International)

ENGINEERING CONTROL DATA

MSDS - A35801-1, Rev. L, EO 7002

Drawing - A35322

DATE PREPARED

7-07-11

SECTION II HAZARDS IDENTIFICATION

ACUTE

EYES

May cause mild irritation.

SKIN CONTACT

No skin effects expected.

INGESTION

Practically non-toxic.

INHALATION

No effects expected.

CHRONIC

CHRONIC EFFECTS OF EXPOSURE

None known, but unnecessary exposure to any chemical should be avoided.

SECTION III COMPOSITION/INFORMATION ON INGREDIENTS

1.Chemical Name: Chlorotrifluoroethylene polymer
CAS No: 9002-83-9
OSHA/PEL: NE*
ACGIH/TLV: NE*
% : 100

2.Chemical Name: Red Dye
CAS No: 82-38-2
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. If irritation persists, contact a physician.

SKIN CONTACT

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

INHALATION

Remove person from contaminated area to fresh air.

INGESTION

No effect expected. If large amounts are ingested, get medical attention.

SECTION V FIRE FIGHTING MEASURES

FLASH POINT

190°F/87°C

METHOD USED

Closed cup

FLAMMABLE LIMITS (in Air % by Vol.)

LEL

NA

UEL

NA

AUTO-IGNITION TEMPERATURE

Not Determined

EXTINGUISHER MEDIA

Water fog, CO₂, Dry Chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES

Evacuate area of all unnecessary personnel. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS

NA

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.

PROTECTIVE GLOVES

Wear chemical resistant gloves such as rubber, neoprene or vinyl.

EYE PROTECTION

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

ADDITIONAL PROTECTIVE CLOTHING OR EQUIPMENT

Eye wash fountains and safety showers should be available for emergency use.

SECTION IX PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT

Decomposes above 500°F

SPECIFIC GRAVITY (H₂O=1)

1.868 @ 100°F

VAPOR PRESSURE (200°F)

.07 to 2.2 mmHg

VAPOR DENSITY (AIR=1)

NA

SOLUBILITY IN WATER

Insoluble

REACTIVITY IN WATER

NA

EVAPORATION RATE (BuAc=1)

NA

FREEZING POINT

-90 °F to -65°F

pH

6.0 – 7.5

APPEARANCE & ODOR

Red color, very little odor.

SECTION X STABILITY AND REACTIVITY

STABILITY

Stable

CONDITION TO AVOID

Avoid friction of galling in contact with aluminum or magnesium parts. This can cause localized areas of instantaneously high pressure and temperature which may result in detonation.

INCOMPATIBILITY (Materials to Avoid)

Reacts violently with sodium, potassium, amines, liquid fluorine, liquid chlorine trifluoride. Keep separate from aluminum and magnesium.

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposes above 500°F releasing hydrogen fluoride, hydrogen chlorides, chlorotrifluoroethylene and other toxic organic fluorine compounds.

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 - 1 FLAMMABILITY - 0 REACTIVITY - 1

DISCLAIMER OF LIABILITY

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