



## Quick Identifier

(as used in label and list)

190 Blue Fluid

# Safety Data Sheet

## Section 1

## Product and Company Identification

**Common Name**

190 Blue Fluid

**Product Model Number**

923BFL

**Product File Number**

920:405-923BFL-3

**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 - A35801-2, Rev. F, EO 7519

Drawing - A36550

**City, State, Zip**

Cleveland, Ohio 44102

**Date Prepared**

06-Nov-2015

## Section 2

## Hazards Identification

**OSHA/HICS status:**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the Substance or mixture:**

Not classified.

**Pictogram:**

Not applicable.

**GHS label elements****Signal word:**

No signal word.

**Hazard statements:**

No known significant effects or critical hazards.

**Precautionary statements****General:****P101 + P102 + P103:**

- Read label before use. Keep out of reach of children.
- If medical advice is needed, have product container or label at hand.

**Prevention:**

Not applicable.

**Response:**

Not applicable.

**Storage:** Not applicable.

**Disposal:** Not applicable.

**Hazards not otherwise classified:** None known.

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## Section 3 Composition/Information on Ingredients

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<b>1. Chemical name:</b>	Chlorotrifluoroethylene Polymer	<b>2. Chemical name:</b>	Blue dye
<b>CAS No:</b>	9002-83-9	<b>CAS No:</b>	
<b>OSHA/PEL:</b>	NE*	<b>OSHA/PEL:</b>	NE*
<b>ACGIH/TLV:</b>	NE*	<b>ACGIH/TLV:</b>	NE*
<b>Percentage:</b>	100%	<b>Percentage:</b>	Trace

### United States

Ingredient name	%	CAS number
Ethene, 1-chloro-1,2,2-trifluoro-,homopolymer	100	9002-83-9

### Canada

Name	%	CAS number
Ethene, 1-chloro-1,2,2-trifluoro-,homopolymer	100	9002-83-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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## Section 4 First Aid Measures

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<b>Eye contact:</b>	<ul style="list-style-type: none"><li>• Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.</li><li>• Check for and remove any contact lenses.</li><li>• Get medical attention if irritation occurs.</li></ul>
<b>Inhalation:</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>• Get medical attention if symptoms occur.</li></ul>
<b>Skin contact:</b>	<ul style="list-style-type: none"><li>• Flush contaminated skin with plenty of water.</li><li>• Get medical attention if symptoms occur.</li></ul>





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## Section 7

## Handling and Storage

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### Precautions for safe handling

<b>Protective measures:</b>	Put on appropriate personal protective equipment (see <b>Section 8</b> ).
<b>Advice on general occupational hygiene</b>	<ul style="list-style-type: none"><li>• Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li><li>• Workers should wash hands and face before eating, drinking and smoking.</li><li>• See also <b>Section 8</b> for additional information on hygiene measures.</li></ul>
<b>Conditions for safe storage, including any incompatibilities:</b>	<ul style="list-style-type: none"><li>• Store in accordance with local regulations.</li><li>• Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see <b>Section 10</b>) and food and drink.</li><li>• Keep container tightly closed and sealed until ready for use.</li><li>• Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li><li>• Do not store in unlabeled containers.</li><li>• Use appropriate containment to avoid environmental contamination.</li></ul>

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## Section 8

## Exposure Controls/Personal Protection

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### Control parameters

<b>United States Occupational exposure limits:</b>	None.
<b>Canada Occupational exposure limits:</b>	No exposure limit value known.
<b>Appropriate engineering controls:</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
<b>Environmental exposure controls:</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

<b>Hygiene measures</b>	<ul style="list-style-type: none"><li>• Wash hands, forearms, and face thoroughly after handling chemical products, before eating, drinking and smoking and using the lavatory and at the end of the working period.</li><li>• Ensure that eyewash stations and safety showers are close to the workstation location.</li></ul>
<b>Eye/face protection</b>	<ul style="list-style-type: none"><li>• Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases and dusts.</li><li>• If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.</li></ul>

## Skin protection

<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Body protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Other Skin protection</b>	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	<ul style="list-style-type: none"><li>• Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary.</li><li>• Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.</li></ul>

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## Section 9

## Physical and Chemical Properties

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### Appearance

<b>Physical state:</b>	Liquid. [Oil.]
<b>Color:</b>	Blue
<b>Odor:</b>	Not available.
<b>Odor threshold:</b>	Not available.
<b>pH:</b>	6 to 7.5
<b>Melting point:</b>	67.8 °C to 18.3 °C (-90 °F to 64.9 °F)
<b>Boiling point:</b>	Not available.
<b>Flash point:</b>	Not available.
<b>Burning time:</b>	Not applicable.
<b>Burning rate:</b>	Not applicable.
<b>Evaporation rate:</b>	Not available.
<b>Flammability (solid, gas) :</b>	Not available.
<b>Lower and upper explosive (flammable) limits:</b>	Not available.
<b>Vapor pressure:</b>	0.0093 kPa to 0.29 kPa (0.07 mmHg to 2.2 mmHg) [93 °C (200 °F)]
<b>Vapor density:</b>	Not available.
<b>Relative density:</b>	1.87 to 1.96 (Refer to the TDS for specifics on each grade.)
<b>Solubility:</b>	Not available.
<b>Solubility in water:</b>	Not available.
<b>Partition coefficient octanol/water:</b>	Not available.
<b>Autoignition temperature</b>	Not available.
<b>Decomposition temperature</b>	> 260 °C (> 500 °F)
<b>SADT</b>	Not available.
<b>Viscosity</b>	Refer to the TDS for specifics on each grade.

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## Section 10

## Stability and Reactivity

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<b>Reactivity:</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability:</b>	The product is stable.
<b>Possibility of hazardous reactions:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid:</b>	<ul style="list-style-type: none"><li>• Do not use on aluminum or magnesium parts when heavy friction or galling can occur.</li><li>• Detonation can occur when Fluorolube is allowed to contact aluminum or magnesium, free of its oxide coating, in confined spaces and under heavy loads or high pressure.</li></ul>
<b>Incompatible materials:</b>	Reacts violently with sodium, potassium, amines, liquid fluorine, liquid Chlorine trifluoride.
<b>Hazardous decomposition products:</b>	Decomposes when heated above 500 °F, releasing hazardous decomposition products including hydrogen fluoride, hydrogen chloride, chlorotrifluoroethylene and other toxic organic fluorine compounds.

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## Section 11

## Toxicological Information

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### Information on toxicological effects

**Acute toxicity** There is no data available.

### Irritation/Corrosion

**Skin** There is no data available.

**Eyes** There is no data available.

**Respiratory** There is no data available.

### Sensitization

**Skin** There is no data available.

**Respiratory** There is no data available.

**Carcinogenicity** There is no data available.

**Specific target organ toxicity – single exposure** There is no data available.

**Specific target organ toxicity – repeated exposure** There is no data available.

**Aspiration hazard** There is no data available.

**Information on the likely routes of exposure:**

- Dermal contact.
- Eye contact.
- Inhalation.
- Ingestion.

### **Potential acute health effects**

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### **Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact:** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### **Delayed and immediate effects and also chronic effects from short and long term exposure**

#### **Short term exposure**

**Potential immediate Effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

#### **Long term exposure**

**Potential immediate Effects:** No known significant effects or critical hazards.

**Potential delayed effects:** No known significant effects or critical hazards.

#### **Potential chronic health effects**

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Developmental effects:** No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates:** There is no data available.



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## Section 12

## Ecological Information

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<b>Toxicity:</b>	There is no data available.
<b>Persistence and degradability:</b>	There is no data available.
<b>Bioaccumulative potential:</b>	There is no data available.
<b>Mobility in soil:</b>	
<b>Soil/water partition Coefficient (Koc):</b>	Not available.
<b>Other adverse effects:</b>	No known significant effects or critical hazards.

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## Section 13

## Disposal Considerations

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<b>Disposal methods:</b>	<ul style="list-style-type: none"><li>• The generation of waste should be avoided or minimized wherever possible.</li><li>• Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.</li><li>• Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.</li><li>• Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.</li><li>• Waste packaging should be recycled.</li><li>• Incineration or landfill should only be considered when recycling is not feasible.</li><li>• This material and its container must be disposed of in a safe way.</li><li>• Empty containers or liners may retain some product residues.</li><li>• Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li></ul>
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## Section 14

## Transport Information

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	<b>DOT/TDG Classification</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number:</b>	Not Regulated.	Not Regulated.	Not Regulated.
<b>UN proper shipping name:</b>	—	—	—
<b>Transport hazard class:</b>	—	—	—
<b>Packing group:</b>	—	—	—
<b>Environmental hazards:</b>	No	No	No
<b>Additional information:</b>	—	—	—

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**AERG:** Not available.

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<b>Special precautions for user:</b>	<ul style="list-style-type: none"><li>• Transport within user's premises: always transport in closed containers that are upright and secure.</li><li>• Ensure that people transporting the product know what to do in the event of an accident or spillage.</li></ul>
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

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## Section 15 Regulatory Information

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### United States

U.S. Federal regulations:	<ul style="list-style-type: none"><li>• <b>TSCA 8(a) CDR Exempt/Partial exemption:</b> All components are listed or exempted.</li><li>• <b>United States Inventory (TSCA 8b):</b> All components are listed or exempted</li></ul>
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):	Not listed.
Clean Air Act Section 602 Class I Substances:	Not listed.
Clean Air Act Section 602 Class II Substances:	Not listed.
DEA List I Chemicals (Precursor Chemicals):	Not listed.
DEA List II Chemicals (Essential Chemicals):	Not listed.
SARA 302/304 composition/information on ingredients:	No products were found.
SARA 304 RQ:	Not applicable.
SARA 311/312 Classification:	Not applicable.

### State Regulations

Massachusetts:	None of the components are listed.
New York:	None of the components are listed.
New Jersey:	None of the components are listed.
Pennsylvania:	None of the components are listed.
California Prop. 65:	No products were found.

### Canada

<b>WHMIS (Canada):</b>	Not controlled under WHMIS (Canada).
<b>Canadian lists</b>	
Canadian NPRI	None of the components are listed.
CEPA Toxic substances	None of the components are listed.
Canada inventory	All components are listed or exempted.

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**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.**

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## International regulations

### International lists

<b>Australia inventory (AICS):</b>	All components are listed or exempted.
<b>China inventory (IECSC):</b>	All components are listed or exempted.
<b>Japan inventory:</b>	All components are listed or exempted.
<b>Korea inventory:</b>	All components are listed or exempted.
<b>Malaysia inventory (EHS Register):</b>	Not determined.
<b>Chemical Weapons Convention List Schedule I Chemicals</b>	Not listed.
<b>Chemical Weapons Convention List Schedule II Chemicals</b>	Not listed.
<b>Chemical Weapons Convention List Schedule III Chemicals</b>	Not listed.

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## Section 16 Other Information

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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.
- HMIS® rating: HEALTH - 1 FLAMMABILITY - 0 REACTIVITY - 1

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## 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.