

Blue Gage Fluid

Safety Data Sheet

Issue date 04/06/2001 Revision date 08/07/2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name. : Blue Gage Fluid

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Gage Fluid

1.3. Details of the supplier of the safety data sheet

Dwyer Instruments, Inc.
102 Highway 212
Michigan City, IN 46361
T 219-879-8868 - F 219-872-9057

1.4. Emergency telephone number

Emergency number : Call CHEMTREC day or night. Domestic North America call- 800-424-9300; International call - 703-527-3887 (collect accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

None

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Chlorotrifluoroethylene polymer	(CAS No.) 9002-83-9	60-100	Not classified
C.I. Solvent Blue 36	(CAS No.) 14233-37-5	0.1-1	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

First-aid measures after skin contact : For skin contact, wash with soap and large amounts of water.

First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

First-aid measures after ingestion : If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : No data available for humans.

Symptoms/injuries after skin contact : No data available for humans.

Symptoms/injuries after eye contact : No data available for humans.

Symptoms/injuries after ingestion : No data available for humans.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : No information available.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No information available.
Explosion hazard : No information available.
Hazardous thermal decomposition products : Thermal decomposition products are toxic and corrosive. See Section 10.

5.3. Advice for firefighters

Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with the skin and the eyes. Wear appropriate protective clothing and respiratory protection for the situation.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.
Methods for cleaning up : Absorb spill with inert material. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep the container tightly closed and in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls : Ensure exposure is below occupational exposure limits (where available).
Hand protection : Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.
Eye protection : Wear safety glasses; chemical goggles (if splashing is possible).
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

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SECTION 9: Physical and chemical properties

Physical state	: Liquid
Color	: Blue
Odor	: Faint ether
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Self-ignition temperature	: No data available
Decomposition temperature	: Rapidly at 325 °C (617 °F), noticeably at 300 °C (572 °F).
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.91 g/cm ³ (15.86 lbs/gal)
Solubility	: Insoluble.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with active metals like sodium and potassium, amines (including additives), liquid fluorine and liquid chlorine trifluoride. Caution should be used with aluminum and magnesium under conditions of large shear forces such as those found in threaded connections.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Active metals, amines, liquid fluorine, liquid chlorine trifluoride.

10.6. Hazardous decomposition products

The decomposition to toxic, non-sludge forming volatiles occurs rapidly at 325 °C (617 °F), noticeably at 300 °C (572 °F), and in lesser amounts at lower temperatures. Therefore, the maximum safe operating temperature recommended is 200 °C (392 °F) and maximum short-term temperature recommended is 260 °C (500 °F).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Extensive studies have been conducted on lighter, more volatile Halocarbon oils. Based on all the available data in three species of animals, limited exposure to Halocarbon oil should not be harmful to any portion of the human anatomy. Studies conducted by the Air Force have demonstrated liver toxicity in rodents but not in primates. The observed liver toxicity is believed to be specific for rodents and not relevant to humans. All mutagenicity studies were negative.

Halocarbon oils are not irritating to skin, but skin protection should be used to prevent repeated exposure and the possibility of sensitization.

In the absence of chronic toxicity data on this product, exposure to the product and its vapors should be avoided since the potential for human toxicity cannot be ruled out.

11.2. Potential health effects

Inhalation : No known effects
Ingestion : No known effects
Skin contact : No known effects
Eye contact : No known effects
Chronic exposure : No known effects
Aggravation of Pre-existing conditions : No known effects
Specific target organ toxicity – Single exposure (Globally Harmonized System) : No data available
Specific target organ toxicity – Repeated exposure (Globally Harmonized System) : No data available
Germ cell mutagenicity : No known effects
Reproductive toxicity : No known effects
Aspiration hazard : No known effects

Ingredient	Known	Anticipated	IARC Category
Chlorotrifluoroethylene polymer (9002-83-9)	No	No	None

SECTION 12: Ecological information

12.1. Ecotoxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Not available as chemical safety assessment not required / not conducted

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste disposal recommendations : Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use, or contamination of this product may change the waste management options.

Dispose of container and unused contents in accordance with federal, state, and local requirements.

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SECTION 14: Transport information

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Additional information

Not regulated

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Chlorotrifluoroethylene polymer (9002-83-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

C.I. Solvent Blue 36 (14233-37-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Chlorotrifluoroethylene polymer (9002-83-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

C.I. Solvent Blue 36 (14233-37-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.3. US State regulations

California Proposition 65

Contains no substances known to the State of California to cause cancer or reproductive harm.

SECTION 16: Other information

HMIS:

Health	1
Flammability	0
Reactivity	0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.