LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.1

1. Identification

Product Identifier

Product Name	Calibration Cells
Product Number	CC1300

Recommended Use
For the daily system calibration/performance check of Radiance.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.

CAUTION: Substance not yet tested completely.

Hazard Statements
None required.

Precautionary Statements
None required.

HMIS (Hazardous Materials Identification System)
Health (acute effects): 0
Flammability: 0
Physical Hazard: 0

3. Composition/Information on Ingredients

No components need to be disclosed according to applicable regulations.

LumaCyte Safety Data Sheet

4. First-Aid Measures

Description of First Aid Measures

Inhalation	Supply fresh air. If required, provide artificial respiration.
Skin Contact	Wash with water and soap and rinse thoroughly.
Eye Contact	Rinse open eye for several minutes under running/flowing water.
Ingestion	Rinse mouth with water.

Most Important Symptoms and Effects

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly Investigated.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Carbon dioxide, dry chemical. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards Arising from the Chemical

Carbon oxides.

Protective Equipment and Precautions for Firefighters

Wear self-contained respirator. Wear fully protective impervious suit.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid breathing vapors, mist, dust or gas. Minimize direct contact with skin or eyes.
Environmental Precautions	No special requirements.

Methods and Materials for Containment and Cleaning Up

Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling

Keep container tightly sealed. Ensure good ventilation at the workplace. Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage, Including any Incompatibilities

Requirements to be Met by Storerooms and Receptacles

Keep tightly closed. Keep in a cool place.

Store away from strong bases, oxidizing agents, and reducing agents.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Respiratory

Use NIOSH (USA) or CEN (EU) approved respiratory protection equipment. Respiratory equipment is not required. When desired, use multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls.

Eyes

Wear chemical goggles or safety glasses with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU) and have eye flushing equipment available.

Skin

Chemical resistant, impervious gloves should be worn at all time of the following types; nitrile or neoprene (0.11 mm thickness).

Body

Wear chemical resistant clothing and protective shoes or boots.

Engineering Controls

Mechanical exhaust required.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Not determined.
Odor Threshold:	Not determined.
pH-Value:	Not determined.
Melting Point/Melting Range:	Not determined.
Boiling Point/Boling Range:	Not determined.
Flammability (solid, gaseous):	Not determined.
Auto Igniting:	304°C.

Ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.
Danger of Explosion:	Not determined.
Vapor Pressure at 20ºC (68°F):	Not determined.
Solubility in Miscibility with water:	Not determined.
Critical Temperature:	Not determined.
Organic Solvents:	Not determined.
Specific Gravity:	Not determined.
Vapor Density:	Not determined.
Volatility:	Not determined.
Water/Oil Dist. Coefficient:	Not determined.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	No data available.
Incompatible materials:	Strong oxidizing agents, strong acids.
Hazardous decomposition products:	If this product is involved in a fire, see section 5.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion:	May be harmful if absorbed through skin. May cause skin Irritation.
Eye Irritation or Corrosion:	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	Rat, Implant; tumorigenic: equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: tumors. Tumorigenic: Tumors at site or application.
IARC:	No component of this product present at levels greater than or equal to 0.1% Is Identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive Toxicity:	No effects known.
Specific Target Organ System Toxicity- Repeated Exposure:	No effects known.
Specific Target Organ System Toxicity- Single Exposure:	No effects known.
Aspiration Hazard:	No effects known.
Subacute to Chronic Toxicity:	No data available.
Additional Toxicological Information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

Toxicity
No data available.

Aquatic Toxicity:	Not a marine pollutant.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

Other Adverse Effects
No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods
Recommendation
Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product. Observe all federal, state and local environmental regulations.

LumaCyte Safety Data Sheet

14. Transport Information

This product is non-hazardous for **DOT (US), IMG, IATA**.

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture GHS Label Elements
This product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).

National and International Inventories
Not found.

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

© 2024 LumaCyte, Inc. | 1145 River Road | Charlottesville, Virginia 22901
www.lumacyte.com | Global: +1-888-472-9295 | info@lumacyte.com

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.3

1. Identification

Product Identifier

Product Name	Clean Mix 1
Product Number	CM1800

Recommended Use

For the mix line cleaning of Radiance Instrument.

Details of the Supplier of the Safety Data Sheet

Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact

info@lumacyte.com

Emergency Contact

Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification
WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Flammable liquid Category 2
Serious Eye Damage/Eye Irritation Category 2
Specific target organ toxicity (single exposure) Category 3 Target Organs - Respiratory system, Central nervous system (CNS).
Specific target organ toxicity - (repeated exposure) Category 2 Target Organs - Kidney, Liver.

Label Elements

Signal Word
Danger

LumaCyte Safety Data Sheet

Hazard Pictograms

Hazard Statements
Highly flammable liquid and vapor
Causes serious eye irritation
May cause respiratory irritation
May cause drowsiness and dizziness
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharges
Do not breathe dust/fumes/gas/mist/vapours/spray
Wash face, hands and any exposed skin thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection

Response
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
IF INHALED: Remove person to fresh air and keep comfortable for breathing
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Call a POISON CENTER/ doctor if you feel unwell
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Disposal
Dispose of contents/container to an approved waste disposal plant

LumaCyte Safety Data Sheet

ADR Classification

Class 3	Flammable Liquids
F1	Flammable Liquids having a flash-point below 60 °C
II	Packing Group

ADR Class 3 Flammable Liquids

3. Composition/Information on Ingredients

Chemical name	CAS No	Weight-%
Isopropyl alcohol	67-63-0	>95

4. First-Aid Measures

Description of First Aid Measures

Inhalation	Move to fresh air. Obtain medical attention. If not breathing, give artificial respiration.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Eye Contact	Rinse Immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Then consult a doctor.
Ingestion	Do not induce vomiting. Obtain medical attention.

Most Important Symptoms/effects

Breathing difficulties. May cause central nervous system depression: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Notes to Physician — Treat symptomatically

5. Fire-Fighting Measures

Suitable Extinguishing Media

CO2, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

Unsuitable Extinguishing Media

Water may be ineffective

Flash Point	12 °C / 53.6 °F
Method	Abel Closed Cup (BS 2000 Part 170, IP 170, AS/NZS 2106)
Autoignition Temperature	425 °C / 797 °F
Explosion Limits	
Upper	12 vol %
Lower	2 vol %
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical
Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO2) peroxides

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NPFA	
Health	2
Flammability	3
Instability	0
Physical hazards	N/A

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing.
Environmental Precautions	Should not be released into the environment.

Methods and Materials for Containment and Cleaning Up
Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Soak up with inert absorbent material. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling
Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Storage
Keep away from heat and sources of ignition. Flammables area. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol	TWA: 200 ppm TWA: 492 mg/m^3 STEL: 400 ppm STEL: 984 mg/m^3	TWA: 200 ppm STEL: 400 ppm	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 985 mg/m^3 STEL: 500 ppm STEL: 1230 mg/m^3	TWA: 200 ppm STEL: 400 ppm	(Vacated) TWA: 400 ppm (Vacated) TWA: 980 mg/m^3 (Vacated) STEL: 500 ppm (Vacated) STEL: 1225 mg/m^3 TWA: 400 ppm TWA: 980 mg/m^3	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m^3 STEL: 500 ppm STEL: 1225 mg/m^3

Legend
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures
Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.
Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection	Goggles
Hand Protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatibility, Dexterity, Operational conditions, User susceptibility, e.g. sensitization effects, also take into consideration the specific local conditions under

	which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Recommended Filter type: EN14387	Organic gases and vapours filter Type A Brown conforming to When RPE is used a face piece Fit Test should be conducted.

Environmental exposure controls
No information available.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Appearance:	Colorless.
Odor:	Alcohol-like.
Odor Threshold:	No information available.
pH-Value:	7 1% aq. Sol.
Melting Point/Melting Range:	-89.5 °C / -129.1 °F.
Boiling Point/Boling Range:	81 - 83 °C / 177.8 - 181.4 °F @ 760 mmHg.
Flash Point Method	12 °C / 53.6 °F. Abel Closed Cup (BS 2000 Part 170, IP 170, AS/NZS 2106).
Evaporation Rate	1.7.
Flammability (solid,gas)	Not applicable.
Flammability or explosive limits Upper Lower	 12 vol %. 2 vol %.
Vapor Pressure	43 mmHg @ 20 °C.
Vapor Density	2.1 @ 20 °C / 68 °F.
Specific Gravity	0.785.

Solubility	Miscible with water.
Partition coefficient; n-octanol/water	No data available.
Autoignition Temperature	425 °C / 797 °F.
Decomposition Temperature	No information available.
Viscosity	2.27 mPa.s at 20 °C.
Molecular Formula	C3 H8 O.
Molecular Weight	60.1.
VOC Content(%)	100% (Organic Carbon (by mass) = 59.9 %) (EC/1999/13).
Refractive index	1.377 at 20 °C / 68 °F (ASTM D-1218).
Surface tension	22.7 mN/m at 20 °C / 68 °F.
Coefficient of expansion	0.0009 / °C.
Dielectric constant	18.6 at 20 °C / 68 °F.
Heat of vaporization	665 J/g.
Specific heat capacity	3 kJ/kg °C at 20 °C / 68 °F.
Thermal conductivity	0.137 W/m °C at 20 °C / 68 °F.

10. Stability and Reactivity

Reactivity	None known, based on information available.
Chemical stability	Stable under normal conditions.
Thermal Decomposition/ Conditions to be Avoided	Heat, flames and sparks. Keep away from open flames, hot surfaces and sources of ignition.
Possibility of hazardous reactions	None under normal processing.
Incompatible materials	Strong oxidizing agents, Acids, Halogens, Acid anhydrides.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO2), peroxides
Hazardous Polymerization	Hazardous polymerization does not occur.

LumaCyte Safety Data Sheet

11. Toxicological Information

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl alcohol	67-63-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure (CNS).	Respiratory system Central nervous system
STOT - repeated exposure	Kidney Liver.
Aspiration hazard	No information available.
Symptoms/effects, both acute and delayed	May cause central nervous system depression: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Endocrine Disruptor Information	No information available.
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological Information

Ecotoxicity
Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl alcohol	EC50: > 1000 mg/L, 72h (Desmodesmus subspicatus) EC50: > 1000 mg/L, 96h (Desmodesmus subspicatus)	LC50: > 1400000 µg/L, 96h (Lepomis macrochirus) LC50: = 9640 mg/L, 96h flow-through (Pimephales promelas) LC50: = 11130 mg/L, 96h static (Pimephales promelas)	= 35390 mg/L EC50 Photobacterium phosphoreum 5 min	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its volatility.

Component	log Pow
Isopropyl alcohol	0.05

13. Disposal Considerations

Waste Disposal Methods
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information (Air and Ground)

DOT

UN-No	UN1219
Proper Shipping Name	Isopropanol
Hazard Class	3
Packing Group	II

TDG

UN-No	UN1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II

IMDG/IMO

UN-No	UN1219
Proper Shipping Name	Isopropanol (Isopropyl alcohol)
Hazard Class	3
Packing Group	II

LumaCyte Safety Data Sheet

15. Regulatory Information

ADR Classification

Class 3	Flammable Liquids
F1	Flammable Liquids having a flash-point below 60 ºC
II	Packing Group

ADR Class 3 Flammable Liquids

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Isopropyl alcohol	X	-	X	200-661-7	-		X	X	X	X	X

Canada
SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Component	Canada - National Pollutant Release Inventory (NPRI)	Canadian Environmental Protection Agency (CEPA) - List of Toxic Substances	Canada's Chemicals Management Plan (CEPA)
Isopropyl alcohol	Part 1, Group A Substance Part 5, Individual Substances		

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.2

1. Identification

Product Identifier

Product Name	Clean Mix 2
Product Numbers	CM1900

Recommended Use
For rinsing after the mix line cleaning of Radiance Instrument.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.

Hazard Statements
None required.

Precautionary Statements
None required.

HMIS (Hazardous Materials Identification System): 1

3. Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100

LumaCyte Safety Data Sheet

4. First-Aid Measures

Description of First Aid Measures

Inhalation	If not breathing give artificial respiration.
Skin Contact	Wash with water and soap and rinse thoroughly.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects
No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed
No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical
No Information available.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid contact with eyes.
Environmental Precautions	No data available.

Methods and Materials for Containment and Cleaning Up
Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling
Prevent further leakage or spillage if safe to do so.
Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

Conditions for Safe Storage, Including any Incompatibilities
No specific storage conditions required.

LumaCyte Safety Data Sheet

8. Exposure Controls/Personal Protection

Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls
Handle in accordance with good industrial hygiene and safety practice.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Odorless.
Odor Threshold:	No information available.
pH-Value:	7.
Melting Point/Melting Range:	0.0 °C / 32 °F
Boiling Point/Boling Range:	100 °C / 212 °F
Flammability (solid, gaseous):	No data available.
Auto Igniting:	No data available.
Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Danger of Explosion:	No data available.

Vapor Pressure at 20ºC (68°F):	No data available.
Solubility in Miscibility with water:	Soluble in water.
Critical Temperature:	No data available.
Organic Solvents:	No data available.
Specific Gravity:	No data available.
Vapor Density:	No data available.
Volatility:	No data available.
Water/Oil Dist. Coefficient:	No data available.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	None under normal processing.
Incompatible materials:	None known based on information supplied.
Hazardous decomposition products:	Carbon oxides.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion	No data available.
Eye Irritation or Corrosion	No data available.
Ingestion	No data available.
Inhalation	No data available.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Contains no ingredient listed as a carcinogen.
Reproductive Toxicity:	No data available.
Specific Target Organ System Toxicity- Repeated Exposure:	No data available.
Specific Target Organ System Toxicity- Single Exposure:	No data available.
Aspiration Hazard:	No data available.
Subacute to Chronic Toxicity:	No known effect based on information supplied.

LumaCyte Safety Data Sheet

Additional Toxicological Information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity	No data available.
Aquatic Toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Results of PBT and vPvB assessment	**PBT/vPvB assessment not available as chemical safety assessment not required/not conducted**
Other Adverse Effects	**No data available**

13. Disposal Considerations

Waste Treatment Methods

Disposal Methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

14. Transport Information

This product is non-hazardous for **DOT (US), IMDG, IATA**.

15. Regulatory Information

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations.

International Regulations

Canada
WHMIS Hazard Class Non-controlled

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.2

1. Identification

Product Identifier

Product Name	DECON Fluid
Product Number	DF1500

Recommended Use
For the decontamination of Radiance Instrument fluidic channels.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

GHS05 Corrosion

Skin Corr.	1B	H314 Causes severe burns and eye damage.
Eye Dam.	1	H318 Causes Serious eye damage.

Hazards not otherwise classified *No information known.*

Label Elements
GHS Label Elements The product is classified in accordance with 29 CFR 1910 (OSHA HCS).

Hazard Pictograms

GHS05

Signal Word

LumaCyte Safety Data Sheet

Danger

Hazard Statements

H314	Causes severe burns and eye damage

Precautionary Statements

P260	Do not breathe dusts or mists.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P301+P330+P331	If swallowed: Rinse mouth. DO NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

ADR Classification

Class 8	Corrosive Substances
C9	Liquid corrosive substance
II	Packing Group

ADR Class 8 Corrosive Substances

WHMIS Classification

D2B	Toxic material causing other toxic effects.
E	Corrosive material.

Classification System

HMIS Ratings (scale 0-4): (Hazardous Materials Identification System)

Health acute effects=3, Flammability=0, Physical Hazard=2

3. Composition/Information on Ingredients

LumaCyte Safety Data Sheet

Chemical Name	CAS No	Weight-%
Trade Secret	Proprietary	5-15%
Trade Secret	Proprietary	85-95%

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-Aid Measures

Description of First Aid Measures

General Information	Immediately remove any clothing soiled by the product.
Inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
Skin Contact	Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
Eye Contact	Rinse open eye for several minutes under running/flowing water. Then consult a doctor.
Ingestion	Seek medical treatment.

Most Important Symptoms and Effects

Symptoms	Causes severe skin burns. Causes serious eye damage.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Carbon dioxide, extinguisher powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards Arising from the Chemical

If this product is involved in a fire, please contact the emergency number for release hazards.

Protective Equipment and Precautions for Firefighters

Wear self-contained respirator. Wear fully protective impervious suit.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
Environmental Precautions	Do not allow product to reach sewage system or any water course.

Methods and Materials for Containment and Cleaning Up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to Section 13. Ensure adequate ventilation.

Protective Action Criteria (PAC)

If this product is involved in an accidental release, please contact the emergency number for release hazards.

7. Handling and Storage

Precautions for Safe Handling

Keep container tightly sealed. Ensure good ventilation at the workplace.

Conditions for Safe Storage, Including any Incompatibilities

Requirements to be Met by Storerooms and Receptacles
Refrigerate. Keep container tightly sealed.

Information About Storage in One Common Storage Facility

Do not store together with acids. Protect from heat. Store away from reducing agents.

Incompatible Materials

Metals, reactive organic and inorganic chemicals.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Respiratory

Avoid breathing vapor or mist. Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components such as a multipurpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU).

Eyes

Wear a face shield, tightly-sealed chemical goggles or safety glasses with side shield and have eye flushing equipment immediately available.

Skin

Chemical resistant, impervious gloves should be worn at all time of the following types; nitrile or neoprene (0.11 mm thickness).

Body

Wear chemical resistant clothing and protective shoes or boots.

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below the TWA value of 2mg/m³.
If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Eye wash facilities and emergency shower must be available when handling this product.

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance: Liquid.

Odor:	Not determined.
Odor Threshold:	Not determined.
pH-Value:	Not determined.
Melting Point/Melting Range:	Not determined.
Boiling Point/Boling Range:	Not determined.
Flammability (solid, gaseous):	Not determined.
Auto Igniting:	Product is not self-igniting.
Ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.
Danger of Explosion:	Not determined.
Vapor Pressure at 20ºC (68°F):	20hPa (15mm Hg)
Solubility in Miscibility with water:	Fully miscible.
Critical Temperature:	Not determined.
Organic Solvents:	0.0%
Specific Gravity:	Not determined.
Vapor Density:	Not determined.
Volatility:	Not determined.
Water/Oil Dist. Coefficient:	Not determined

LumaCyte Safety Data Sheet

10. Stability and Reactivity

Reactivity:	Contact with acids liberates toxic gas.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions:	This product may react with metals and reactive organic and inorganic chemicals, alkali metals and acids.
Incompatible materials:	Reducing agents, acids, heat.
Hazardous decomposition products:	If this product is involved in a fire, please contact the emergency number for release hazards.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product.
LD/LC50 values that are relevant for classification:	No data.
Skin Irritation or Corrosion:	Causes severe skin burns.
Eye Irritation or Corrosion:	Causes serious eye damage.
Sensitization:	No sensitizing effects known.
Germ Cell Mutagenicity:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for components in this product.
Carcinogenicity:	IARC-3: Not classifiable as to carcinogenicity to humans.
Reproductive Toxicity:	No effects known.
Specific Target Organ System Toxicity- Repeated Exposure:	No effects known.
Specific Target Organ System Toxicity- Single Exposure:	No effects known.
Aspiration Hazard:	No effects known.
Subacute to Chronic Toxicity:	The Registry of Toxic Effects of

Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

Additional Toxicological Information:
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. The product shows the following dangers according to internally approved calculation methods for preparations: **CORROSIVE**.

12. Ecological Information

Toxicity
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment but contains substance(s) dangerous for the environment.

Aquatic Toxicity:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

Additional ecological information
General notes

Do not allow product to reach ground water, water course, or sewage system.

Danger to drinking water if even small quantities leak into the ground. Avoid transfer into the environment.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

Other Adverse Effects
No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods
Recommendation
Waste should be treated as hazardous and must be disposed of in accordance with federal, state, and local environmental control regulations.

LumaCyte Safety Data Sheet

14. Transport Information (Air and Ground)

This product is protected as a trade secret.

Environmental Hazards
Marine Pollutant (IMDG and DOT)
Not hazardous in the quantities that are being shipped (volumes under 1 liter).

Special Precautions for User
Warning: Corrosive substances

Tariff Code
9027.90.8950

Packing Group
II

ADR Classification

Class 8	Corrosive Substances
C9	Liquid corrosive substance
II	Packing Group

ADR Class 8 Corrosive Substances

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture GHS Label Elements
This product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).

Hazard Pictograms


GHS05

Signal Word
Danger

Hazard Statements

H314	Causes severe burns and eye damage

Precautionary Statements

P260	Do not breathe dusts or mists.

P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P301+P330+P331	If swallowed: Rinse mouth. DO NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

ADR Classification

Class 8	Corrosive Substances
C9	Liquid corrosive substance
II	Packing Group

ADR Class 8 Corrosive Substances

National and International Inventories

Chemical Name	EPA TSCA	DSL	SARA Sec 313	Prop 65	REACH (EC) No. 1907/2006 SVHC	REACH (EC) No. 1907/2006 Art. 67 Annex VII	REACH (EC) No. 1907/2006 Annex XIV
Proprietary	Present	Present	X	X	X	X	X
Proprietary	Present	Present	X	X	X	X	X

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.2

1. Identification

Product Identifier

Product Name	Flush Fluid
Product Number	FF2000

Recommended Use
For rinsing the DECON fluid during each cleaning within Radiance.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.

Hazard Statements
None required.

Precautionary Statements
None required.

HMIS (Hazardous Materials Identification System): 1

3. Composition/Information on Ingredients

No components need to be disclosed according to applicable regulations.

4. First-Aid Measures

Description of First Aid Measures

Inhalation	Supply fresh air. If required, provide artificial respiration.
Skin Contact	Wash with water and soap and rinse thoroughly.
Eye Contact	Rinse open eye for several minutes under running/flowing water.

Ingestion	Rinse mouth with water.

Most Important Symptoms and Effects
Not hazardous.

Indication of Any Immediate Medical Attention and Special Treatment Needed
No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Carbon dioxide, dry chemical. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards Arising from the Chemical
Toxic fumes under fire conditions. Carbon oxides, Nitrogen oxides, sodium oxides.

Protective Equipment and Precautions for Firefighters
Wear self-contained respirator. Wear fully protective impervious suit.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid breathing vapors, mist, dust or gas. Minimize direct contact with skin or eyes.
Environmental Precautions	No special requirements.

Methods and Materials for Containment and Cleaning Up
Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling
Keep container tightly sealed. Ensure good ventilation at the workplace. Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage, Including any Incompatibilities
Requirements to be Met by Storerooms and Receptacles
Keep tightly closed. Store at 2-30°C.
Store away from strong bases, oxidizing agents, and reducing agents.

8. Exposure Controls/Personal Protection

Exposure Guidelines

© 2024 LumaCyte, Inc. | 1145 River Road | Charlottesville, Virginia 22901
www.lumacyte.com | Global: +1-888-472-9295 | info@lumacyte.com

Respiratory
Use NIOSH (USA) or CEN (EU) approved respiratory protection equipment. Respiratory equipment is not required. When desired, use multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls.

Eyes
Wear chemical goggles or safety glasses with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU) and have eye flushing equipment available.

Skin
Chemical resistant, impervious gloves should be worn at all time of the following types; nitrile or neoprene (0.11 mm thickness).

Body
Wear chemical resistant clothing and protective shoes or boots.

Engineering Controls
Mechanical exhaust required.

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Not determined.
Odor Threshold:	Not determined.
pH-Value:	Not determined.
Melting Point/Melting Range:	Not determined.
Boiling Point/Boling Range:	Not determined.
Flammability (solid, gaseous):	Not determined.
Auto Igniting:	Not determined.
Ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.
Danger of Explosion:	Not determined.
Vapor Pressure at 20ºC (68°F):	Not determined.

Solubility in Miscibility with water:	Soluble.
Critical Temperature:	Not determined.
Organic Solvents:	Not determined.
Specific Gravity:	Not determined.
Vapor Density:	Not determined.
Volatility:	Not determined.
Water/Oil Dist. Coefficient:	Not determined.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	If this product is involved in a fire, see section 5.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion:	May cause skin irritation. May be harmful if absorbed through skin.
Eye Irritation or Corrosion:	May cause eye irritation.
Ingestion	May be harmful if swallowed.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Not classifiable as to carcinogenicity to humans.
Reproductive Toxicity:	No effects known.
Specific Target Organ System Toxicity- Repeated Exposure:	No effects known.
Specific Target Organ System Toxicity- Single Exposure:	No effects known.

Aspiration Hazard:	No effects known.
Subacute to Chronic Toxicity:	No data available.
Additional Toxicological Information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

Toxicity
No data available.

Aquatic Toxicity:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

Other Adverse Effects
No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods
Recommendation
Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product. Observe all federal, state and local environmental regulations.

14. Transport Information

This product is non-hazardous for **DOT (US), IMG, IATA**.

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture GHS Label Elements
This product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).

National and International Inventories
Chemical name/composition: Proprietary*

New Jersey Right to Know: Present
PA Right to Know: Present

*If chemical name/composition Is "proprietary" and/or weight Is listed as a range, the specified chemical Identity and/or percentage of composition has been withheld as a trade secret.

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.2

1. Identification

Product Identifier

Product Name	Home Vial Fluid
Product Numbers	HV1700

Recommended Use
For storing the Radiance injection tubing in the Home position.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.

Hazard Statements
None required.

Precautionary Statements
None required.

HMIS (Hazardous Materials Identification System): 1

3. Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100

4. First-Aid Measures

LumaCyte Safety Data Sheet

Description of First Aid Measures

Inhalation	If not breathing give artificial respiration.
Skin Contact	Wash with water and soap and rinse thoroughly.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects
No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed
No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical
No Information available.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid contact with eyes.
Environmental Precautions	No data available.

Methods and Materials for Containment and Cleaning Up
Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling
Prevent further leakage or spillage if safe to do so.
Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

Conditions for Safe Storage, Including any Incompatibilities
No specific storage conditions required.

8. Exposure Controls/Personal Protection

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls

Handle in accordance with good industrial hygiene and safety practice.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Odorless.
Odor Threshold:	No information available.
pH-Value:	7.
Melting Point/Melting Range:	0.0 °C / 32 °F
Boiling Point/Boling Range:	100 °C / 212 °F
Flammability (solid, gaseous):	No data available.
Auto Igniting:	No data available.
Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Danger of Explosion:	No data available.
Vapor Pressure at 20ºC (68°F):	No data available.
Solubility in Miscibility with water:	Soluble in water.

Critical Temperature:	No data available.
Organic Solvents:	No data available.
Specific Gravity:	No data available.
Vapor Density:	No data available.
Volatility:	No data available.
Water/Oil Dist. Coefficient:	No data available.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	None under normal processing.
Incompatible materials:	None known based on information supplied.
Hazardous decomposition products:	Carbon oxides.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion	No data available.
Eye Irritation or Corrosion	No data available.
Ingestion	No data available.
Inhalation	No data available.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Contains no ingredient listed as a carcinogen.
Reproductive Toxicity:	No data available.
Specific Target Organ System Toxicity- Repeated Exposure:	No data available.
Specific Target Organ System Toxicity- Single Exposure:	No data available.
Aspiration Hazard:	No data available.
Subacute to Chronic Toxicity:	No known effect based on information supplied.

Additional Toxicological Information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity	No data available.
Aquatic Toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Results of PBT and vPvB assessment	**PBT/vPvB assessment not available as chemical safety assessment not required/not conducted**
Other Adverse Effects	**No data available**

13. Disposal Considerations

Waste Treatment Methods

Disposal Methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

14. Transport Information

This product is non-hazardous for **DOT (US), IMDG, IATA**.

15. Regulatory Information

International Inventories

TSCA	**Complies**
DSL	**All components are listed either on the DSL or NDSL.**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations.

International Regulations

Canada
WHMIS Hazard Class Non-controlled

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.2

1. Identification

Product Identifier

Product Name	Rinse Fluid
Product Number	FF2300

Recommended Use
For rinsing tubing within Radiance after each sample.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.

Hazard Statements
None required.

Precautionary Statements
None required.

HMIS (Hazardous Materials Identification System): 1

3. Composition/Information on Ingredients

No components need to be disclosed according to applicable regulations.

4. First-Aid Measures

Description of First Aid Measures

Inhalation	Supply fresh air. If required, provide artificial respiration.
Skin Contact	Wash with water and soap and rinse thoroughly.
Eye Contact	Rinse open eye for several minutes under running/flowing water.
Ingestion	Rinse mouth with water.

Most Important Symptoms and Effects
Not hazardous.

Indication of Any Immediate Medical Attention and Special Treatment Needed
No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Carbon dioxide, dry chemical. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards Arising from the Chemical
Toxic fumes under fire conditions. Carbon oxides, Nitrogen oxides, sodium oxides.

Protective Equipment and Precautions for Firefighters
Wear self-contained respirator. Wear fully protective impervious suit.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid breathing vapors, mist, dust or gas. Minimize direct contact with skin or eyes.
Environmental Precautions	No special requirements.

Methods and Materials for Containment and Cleaning Up
Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling
Keep container tightly sealed. Ensure good ventilation at the workplace. Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage, Including any Incompatibilities
Requirements to be Met by Storerooms and Receptacles
Keep tightly closed. Store at 2-30°C.
Store away from strong bases, oxidizing agents, and reducing agents.

LumaCyte Safety Data Sheet

8. Exposure Controls/Personal Protection

Exposure Guidelines

Respiratory

Use NIOSH (USA) or CEN (EU) approved respiratory protection equipment. Respiratory equipment is not required. When desired, use multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls.

Eyes

Wear chemical goggles or safety glasses with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU) and have eye flushing equipment available.

Skin

Chemical resistant, impervious gloves should be worn at all time of the following types; nitrile or neoprene (0.11 mm thickness).

Body

Wear chemical resistant clothing and protective shoes or boots.

Engineering Controls

Mechanical exhaust required.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Not determined.
Odor Threshold:	Not determined.
pH-Value:	Not determined.
Melting Point/Melting Range:	Not determined.
Boiling Point/Boling Range:	Not determined.
Flammability (solid, gaseous):	Not determined.
Auto Igniting:	Not determined.
Ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.

Danger of Explosion:	Not determined.
Vapor Pressure at 20ºC (68°F):	Not determined.
Solubility in Miscibility with water:	Soluble.
Critical Temperature:	Not determined.
Organic Solvents:	Not determined.
Specific Gravity:	Not determined.
Vapor Density:	Not determined.
Volatility:	Not determined.
Water/Oil Dist. Coefficient:	Not determined.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	If this product is involved in a fire, see section 5.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion:	May cause skin irritation. May be harmful if absorbed through skin.
Eye Irritation or Corrosion:	May cause eye irritation.
Ingestion	May be harmful if swallowed.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Not classifiable as to carcinogenicity to humans.

Reproductive Toxicity:	No effects known.
Specific Target Organ System Toxicity- Repeated Exposure:	No effects known.
Specific Target Organ System Toxicity- Single Exposure:	No effects known.
Aspiration Hazard:	No effects known.
Subacute to Chronic Toxicity:	No data available.
Additional Toxicological Information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

Toxicity
No data available.

Aquatic Toxicity:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

Other Adverse Effects
No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods
Recommendation
Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product. Observe all federal, state and local environmental regulations.

14. Transport Information

This product is non-hazardous for **DOT (US), IMG, IATA**.

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture GHS Label Elements
This product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).

National and International Inventories
Chemical name/composition: Proprietary*
New Jersey Right to Know: Present
PA Right to Know: Present

*If chemical name/composition Is "proprietary" and/or weight Is listed as a range, the specified chemical Identity and/or percentage of composition has been withheld as a trade secret.

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

© 2024 LumaCyte, Inc. | 1145 River Road | Charlottesville, Virginia 22901
www.lumacyte.com | Global: +1-888-472-9295 | info@lumacyte.com

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.1

1. Identification

Product Identifier

Product Name	Sample Dilution Fluid
Product Number	SDF-1600
	SDF-1700

Recommended Use
For the dilution and preservation of biological samples for analysis with Radiance.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.

Hazard Statements
None required.

Precautionary Statements
None required.

HMIS (Hazardous Materials Identification System)
Health (acute effects): 1
Flammability: 0
Physical Hazard: 1

3. Composition/Information on Ingredients

No components need to be disclosed according to applicable regulations.

LumaCyte Safety Data Sheet

4. First-Aid Measures

Description of First Aid Measures

Inhalation	Supply fresh air. If required, provide artificial respiration.
Skin Contact	Wash with water and soap and rinse thoroughly.
Eye Contact	Rinse open eye for several minutes under running/flowing water.
Ingestion	Rinse mouth with water.

Most Important Symptoms and Effects
Not hazardous.

Indication of Any Immediate Medical Attention and Special Treatment Needed
No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Carbon dioxide, dry chemical. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards Arising from the Chemical
Carbon oxides, Nitrogen oxides, sulfur oxides.

Protective Equipment and Precautions for Firefighters
Wear self-contained respirator. Wear fully protective impervious suit.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid breathing vapors, mist, dust or gas. Minimize direct contact with skin or eyes.
Environmental Precautions	No special requirements.

Methods and Materials for Containment and Cleaning Up
Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling
Keep container tightly sealed. Ensure good ventilation at the workplace. Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage, Including any Incompatibilities
Requirements to be Met by Storerooms and Receptacles
Keep tightly closed. Refrigerate.

© 2024 LumaCyte, Inc. | 1145 River Road | Charlottesville, Virginia 22901
www.lumacyte.com | Global: +1-888-472-9295 | info@lumacyte.com

LumaCyte®

Store away from strong bases, oxidizing agents, and reducing agents.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Respiratory

Use NIOSH (USA) or CEN (EU) approved respiratory protection equipment. Respiratory equipment is not required. When desired, use multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls.

Eyes

Wear chemical goggles or safety glasses with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU) and have eye flushing equipment available.

Skin

Chemical resistant, impervious gloves should be worn at all time of the following types; nitrile or neoprene (0.11 mm thickness).

Body

Wear chemical resistant clothing and protective shoes or boots.

Engineering Controls

Mechanical exhaust required.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Not determined.
Odor Threshold:	Not determined.
pH-Value:	Not determined.
Melting Point/Melting Range:	Not determined.
Boiling Point/Boling Range:	Not determined.
Flammability (solid, gaseous):	Not determined.
Auto Igniting:	Not determined.

Ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.
Danger of Explosion:	Not determined.
Vapor Pressure at 20ºC (68°F):	Not determined.
Solubility in Miscibility with water:	Not available.
Critical Temperature:	Not determined.
Organic Solvents:	Not determined.
Specific Gravity:	Not determined.
Vapor Density:	Not determined.
Volatility:	Not determined.
Water/Oil Dist. Coefficient:	Not determined.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	If this product is involved in a fire, see section 5.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity: LD/LC50 values that are relevant for classification:	No data available. Oral, LD50, 3587 mg.kg (rat) LC50 2610-3080 mg/L Pimephales promelas 96h (fish)
Skin Irritation or Corrosion:	May cause skin irritation. May be harmful if absorbed through skin.
Eye Irritation or Corrosion: Ingestion	May cause eye irritation. May be harmful if swallowed.

Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Not classifiable as to carcinogenicity to humans.
Reproductive Toxicity:	No effects known.
Specific Target Organ System Toxicity- Repeated Exposure:	No effects known.
Specific Target Organ System Toxicity- Single Exposure:	No effects known.
Aspiration Hazard:	No effects known.
Subacute to Chronic Toxicity:	No data available.
Additional Toxicological Information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

Toxicity
No data available.

Aquatic Toxicity:	May be harmful to fish at high concentrations over extended time.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

Other Adverse Effects
No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods
Recommendation
Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product. Observe all federal, state and local environmental regulations.

14. Transport Information

LumaCyte Safety Data Sheet

This product is non-hazardous for **DOT (US), IMG, IATA**.

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture GHS Label Elements
This product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).

National and International Inventories
Not found.

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

© 2024 LumaCyte, Inc. | 1145 River Road | Charlottesville, Virginia 22901
www.lumacyte.com | Global: +1-888-472-9295 | info@lumacyte.com

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.5

1. Identification

Product Identifier

Product Name	Stabilization Fluid
Product Number	STBF-1600
	STBF-1700

Recommended Use
Cell stabilization fluid for optimal performance when run on Radiance.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST)
(888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Based on available data, the classification criteria are not met.

Hazard Statements
None required.

Precautionary Statements
None required.

LumaCyte Safety Data Sheet

3. Composition/Information on Ingredients

Chemical Name	CAS No	Weight-%
Chemical A Trade Secret	Proprietary	74 %
Chemical B Trade Secret	Proprietary	4 %
Chemical C Trade Secret	Proprietary	< 1%
Chemical D Trade Secret	Proprietary	< 1 %
Chemical E Trade Secret	Proprietary	21 %

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Chemical A through D: The chemicals contain no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Chemical E: NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

4. First-Aid Measures

Description of First Aid Measures

Inhalation	Supply fresh air. Get medical attention immediately if symptoms occur.
Skin Contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical attention immediately if symptoms occur.
Eye Contact	Rinse open eye for several minutes under running/flowing water. Obtain medical attention if pain, blinking or redness persists.
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Most Important Symptoms and Effects

Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Specific Hazards Arising from the Chemical
No information available.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability
1	0	0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Ensure adequate ventilation Always wear recommended Personal Protective Equipment. Use personal protection equipment.
Environmental Precautions	Should not be released into the environment. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage in suitable container for disposal.

7. Handling and Storage

Precautions for Safe Handling
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage, Including any Incompatibilities
Store at 4ºC.

8. Exposure Controls/Personal Protection

Exposure Guidelines
Respiratory
Use NIOSH (USA) or CEN (EU) approved respiratory protection equipment. Respiratory equipment is not required. When desired, use multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls.

Eyes
Wear chemical goggles or safety glasses with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU) and have eye flushing equipment available.

Skin
Wear protective gloves.

Body
Wear chemical resistant clothing and protective shoes or boots.

Engineering Controls
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure exposure is below occupational exposure limits (where available).

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State:	Liquid.
Appearance:	Colorless.
Odor:	No data available.
Odor Threshold:	No data available.
pH-Value:	7.
Melting Point/Melting Range:	No data available.
Boiling Point/Boling Range:	No data available.
Flammability (solid, gaseous):	No data available.
Auto Igniting:	No data available.
Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Danger of Explosion:	No data available.
Vapor Pressure at 20ºC (68°F):	No data available.
Solubility in Miscibility with water:	No data available.
Critical Temperature:	No data available.
Organic Solvents:	No data available.
Specific Gravity:	No data available.

Vapor Density:	No data available.
Volatility:	No data available.
Water/Oil Dist. Coefficient:	No data available

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	Hazardous reaction has not been reported.
Possibility of hazardous reactions:	No data available.
Incompatible materials:	No dangerous reaction known under conditions of normal use.
Hazardous decomposition products:	No data available.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion:	No data available
Eye Irritation or Corrosion:	No data available
Ingestion	No data available.
Inhalation	No data available.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Not classifiable as to carcinogenicity to humans.
Reproductive Toxicity:	No effects known.
Specific Target Organ System Toxicity- Repeated Exposure:	No effects known.
Specific Target Organ System Toxicity- Single Exposure:	No effects known.
Aspiration Hazard:	No effects known.
Subacute to Chronic Toxicity:	No data available.
Additional Toxicological Information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

© 2024 LumaCyte, Inc. | 1145 River Road | Charlottesville, Virginia 22901
www.lumacyte.com | Global: +1-888-472-9295 | info@lumacyte.com

LumaCyte Safety Data Sheet

12. Ecological Information

Toxicity
No data available.

Aquatic Toxicity:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Results of PBT and vPvB assessment	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other Adverse Effects
No further relevant information available.

13. Disposal Considerations

Disposal Methods

Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.

14. Transport Information

This product is non-hazardous for **DOT (US), IMG, IATA**.

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture GHS Label Elements
This product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

National and International Inventories

LumaCyte Safety Data Sheet

Chemical Name	New Jersey Right to Know	CAA	SARA	CA Prop 65	PA Right to Know	TSCA	DSL	EINECS	AICS	IESC	KECL
Chemical A Proprietary	-	No	No	No	-	-	-	-	-	-	-
Chemical B Proprietary	-	No	No	No	X	X	X	Yes	X	X	X
Chemical C Proprietary	-	No	No	No	-	Complies	-	-	-	-	-
Chemical D Proprietary	Yes	-	No	No	Yes	-	-	-	-	-	-
Chemical E Proprietary	-	-	Yes**	-	-	-	-	-	-	-	-

If Chemical Name/CAS No is "proprietary" and/or weight-% is listed as a range, the specified chemical identity and/or percentage of composition has been withheld as a trade secret.
X listed
**This chemical is a mixture where 0.6% of this chemical falls under SARA Section 311/312 Hazard Classes: Immediate (acute) health hazard

Not applicable under U.S. Federal Regulations for listing.

16. Other Information

Chemical A
HMIS

Health	*Flammability*	*Reactivity*
0	*0*	*0*

Chemical B
HMIS

Health	*Flammability*	*Reactivity*
0	*0*	*0*

LumaCyte Safety Data Sheet

Chemical C
HMIS

Health	Flammability	Physical hazard	Personal protection
0	0	0	-

NFPA

Health	Flammability	Instability	Special Hazard
0	0	0	-

Chemical D
HMIS

Health	Chronic health hazard	Flammability	Physical hazard
1	-	0	0

NFPA

Health	Flammability	Reactivity
0	0	0

Chemical E

HMIS

Health	Flammability	Physical hazard	Personal protection
1	0	0	B Safety glasses, gloves

NFPA

Health	Flammability	Reactivity
1	0	0

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.1

1. Identification

Product Identifier
Product Name Storage Vial
Product Numbers IF1050

Recommended Use
For long term storage of Radiance in the Input and Output Vial locations.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Not a hazardous substance or mixture.

Hazard Statements
None required.

Precautionary Statements
None required.

HMIS (Hazardous Materials Identification System): 1

3. Composition/Information on Ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100

4. First-Aid Measures

LumaCyte Safety Data Sheet

Description of First Aid Measures

Inhalation	If not breathing give artificial respiration.
Skin Contact	Wash with water and soap and rinse thoroughly.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects
No information available.

Indication of Any Immediate Medical Attention and Special Treatment Needed
No further relevant information available.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising from the Chemical
No Information available.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid contact with eyes.
Environmental Precautions	No data available.

Methods and Materials for Containment and Cleaning Up
Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling
Prevent further leakage or spillage if safe to do so.
Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

Conditions for Safe Storage, Including any Incompatibilities
No specific storage conditions required.

8. Exposure Controls/Personal Protection

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Controls

Handle in accordance with good industrial hygiene and safety practice.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Odorless.
Odor Threshold:	No information available.
pH-Value:	7.
Melting Point/Melting Range:	0.0 °C / 32 °F
Boiling Point/Boling Range:	100 °C / 212 °F
Flammability (solid, gaseous):	No data available.
Auto Igniting:	No data available.
Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Danger of Explosion:	No data available.
Vapor Pressure at 20ºC (68°F):	No data available.
Solubility in Miscibility with water:	Soluble in water.

Critical Temperature:	No data available.
Organic Solvents:	No data available.
Specific Gravity:	No data available.
Vapor Density:	No data available.
Volatility:	No data available.
Water/Oil Dist. Coefficient:	No data available.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	None under normal processing.
Incompatible materials:	None known based on information supplied.
Hazardous decomposition products:	Carbon oxides.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion	No data available.
Eye Irritation or Corrosion	No data available.
Ingestion	No data available.
Inhalation	No data available.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Contains no ingredient listed as a carcinogen.
Reproductive Toxicity:	No data available.
Specific Target Organ System Toxicity- Repeated Exposure:	No data available.
Specific Target Organ System Toxicity- Single Exposure:	No data available.
Aspiration Hazard:	No data available.
Subacute to Chronic Toxicity:	No known effect based on information supplied.

Additional Toxicological Information
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated.

12. Ecological Information

Toxicity	No data available.
Aquatic Toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Results of PBT and vPvB assessment	**PBT/vPvB assessment not available as chemical safety assessment not required/not conducted**
Other Adverse Effects	**No data available**

13. Disposal Considerations

Waste Treatment Methods

Disposal Methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

14. Transport Information

This product is non-hazardous for **DOT (US), IMDG, IATA**.

15. Regulatory Information

International Inventories

TSCA	**Complies**
DSL	**All components are listed either on the DSL or NDSL.**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations.

International Regulations

Canada
WHMIS Hazard Class Non-controlled

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.

LumaCyte Safety Data Sheet

Issue Date: April, 2018 Revision Date: March, 2024 Version: 1.1

1. Identification

Product Identifier

Product Name	Input Vial and Output Vial
Product Number	IF1000 OF1100

Recommended Use
Necessary performance fluid for use with Radiance.

Details of the Supplier of the Safety Data Sheet
Address
LumaCyte
1145 River Road, Suite 16
Charlottesville, VA 22901

E-mail Contact
info@lumacyte.com

Emergency Contact
Company Telephone Number (to reorder or during business hours of M-F 9am-5pm EST) (888) 472-9295

2. Hazards Identification

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Based on available data, the classification criteria are not met.

Hazard Statements
None required.

Precautionary Statements
None required.

LumaCyte Safety Data Sheet

3. Composition/Information on Ingredients

Chemical Name	CAS No	Weight-%
Trade Secret	Proprietary	<35
Trade Secret	Proprietary	65-90
Trade Secret	Proprietary	1-5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-Aid Measures

Description of First Aid Measures

Inhalation	Supply fresh air. Get medical attention immediately if symptoms occur.
Skin Contact	Wash with water and soap and rinse thoroughly. Get medical attention immediately if symptoms occur.
Eye Contact	Rinse open eye for several minutes under running/flowing water. Get medical attention.
Ingestion	Rinse mouth with water. Get medical attention immediately if symptoms occur.

Most Important Symptoms and Effects
None reasonably foreseeable.

Indication of Any Immediate Medical Attention and Special Treatment Needed
Treat symptomatically.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Carbon dioxide, dry chemical. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards Arising from the Chemical
No information available.

Protective Equipment and Precautions for Firefighters
Wear self-contained respirator. Wear fully protective impervious suit.

NFPA: Instability: 1

Health: 0
Flammability: 0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid breathing vapors, mist, dust or gas. Minimize direct contact with skin or eyes. Ensure adequate ventilation.
Environmental Precautions	Should not be released into the environment.

Methods and Materials for Containment and Cleaning Up

Keep in suitable closed containers for disposal. Absorb with sand or vermiculite. Ventilate and wash spill site.

7. Handling and Storage

Precautions for Safe Handling

Keep container tightly sealed. Ensure good ventilation at the workplace. Avoid ingestion, inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage, Including any Incompatibilities

Requirements to be Met by Storerooms and Receptacles
Keep tightly closed. Store at 2-30ºC.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Respiratory

Use NIOSH (USA) or CEN (EU) approved respiratory protection equipment. Respiratory equipment is not required. When desired, use multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls.

Eyes

Wear chemical goggles or safety glasses with side shields tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU) and have eye flushing equipment available.

Skin

Chemical resistant, impervious gloves should be worn at all time of the following types; nitrile or neoprene (0.11 mm thickness).

Body

Wear chemical resistant clothing and protective shoes or boots.

Engineering Controls
Mechanical exhaust required.

Other Work Practices
Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Keep away from foodstuffs, beverages and feed.

9. Physical and Chemical Properties

Physical State and Appearance:	Liquid.
Odor:	Not determined.
Odor Threshold:	Not determined.
pH-Value:	Not determined.
Melting Point/Melting Range:	Not determined.
Boiling Point/Boling Range:	Not determined.
Flammability (solid, gaseous):	Not determined.
Auto Igniting:	Not determined.
Ignition Temperature:	Not determined.
Decomposition Temperature:	Not determined.
Danger of Explosion:	Not determined.
Vapor Pressure at 20ºC (68°F):	Not determined.
Solubility in Miscibility with water:	Soluble.
Critical Temperature:	Not determined.
Organic Solvents:	Not determined.
Specific Gravity:	Not determined.
Vapor Density:	Not determined.
Volatility:	Not determined.
Water/Oil Dist. Coefficient:	Not determined.

10. Stability and Reactivity

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Thermal Decomposition/ Conditions to be Avoided:	No data available.
Possibility of hazardous reactions:	No data available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	If this product is involved in a fire, see section 5. Carbon monoxide, carbon dioxide.

11. Toxicological Information

Information on Toxicological Effects

Acute toxicity:	No data available.
LD/LC50 values that are relevant for classification:	No data available.
Skin Irritation or Corrosion:	May cause skin irritation. May be harmful if absorbed through skin.
Eye Irritation or Corrosion:	May cause eye irritation.
Ingestion	May be harmful if swallowed.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	IARC, ACGIH, NTP, OSHA: Not classifiable as to carcinogenicity to humans.
Reproductive Toxicity:	No effects known.
Specific Target Organ System Toxicity- Repeated Exposure:	No effects known.
Specific Target Organ System Toxicity- Single Exposure:	No effects known.
Aspiration Hazard:	No effects known.
Subacute to Chronic Toxicity:	No data available.
Additional Toxicological Information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

Toxicity
No data available.

Aquatic Toxicity:	No data available.

© 2024 LumaCyte, Inc. | 1145 River Road | Charlottesville, Virginia 22901
www.lumacyte.com | Global: +1-888-472-9295 | info@lumacyte.com

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

Other Adverse Effects
No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods
Recommendation
Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product. Observe all federal, state and local environmental regulations.

14. Transport Information

This product is non-hazardous for **DOT (US), IMG, IATA**.

15. Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture GHS Label Elements
This product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS).

National and International Inventories

Chemical Name	New Jersey Right to KNow	CAA	SARA	CA Prop 65	PA Right to Know	TSCA	DSL	EINECS	AICS	IESC	KECL
Proprietary	No	No	No	No	No	Present	Present	Present	Present	Present	Present
Proprietary	Present	No	No	No	Present	No	No	No	No	No	No
Proprietary	Present	No	No	No	Present	No	No	No	No	No	No

If Chemical Name/CAS No is "proprietary" and/or weight-% is listed as a range, the specified chemical identity and/or percentage of composition has been withheld as a trade secret.

Not applicable under U.S. Federal Regulations for listing.

16. Other Information

The above information is correct to the best of our knowledge but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. User should make independent decisions regarding completeness of the information base on all available sources. The use of this product must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. LumaCyte shall not be held liable for any damage resulting from handling or from contact with the above product.