

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

Identification of the substance or mixture

Product code K1140
Product name LYTICBLAZER H-FRET B/G

Company/undertaking identification

Life Technologies
5791 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response:

866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

Country specific Emergency Number (if available):

CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: Hazards identification

GHS - Classification

Signal Word

DANGER



Health hazards

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Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Specific target organ systemic toxicity (single exposure)	Category 1

Physical hazards

GHS Physical Hazard 1	Flammable liquids
GHS Physical Hazard Category Number	Category 3

Hazard Statements

H226 - Flammable liquid and vapor
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H370 - Causes damage to organs

Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Principle Routes of Exposure

Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
Skin	Harmful in contact with skin.
inhalation	Harmful by inhalation.
Ingestion	Harmful if swallowed.

Specific effects

Carcinogenic effects	Not Applicable
Mutagenic effects	Not Applicable
Reproductive toxicity	No information available
Sensitization	Not Applicable

Target Organ Effects	optic nerve (nervus opticus) Central Nervous System (CNS)
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HMIS

Health	3 * Chronic Hazard
Flammability	3
Reactivity	0

SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
methanol	67-56-1	200-659-6	10-30

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.
Ingestion	Immediate medical attention is required. Call a physician or poison control center immediately. Rinse mouth.
Inhalation	Move to fresh air in case of accidental inhalation of vapors or decomposition products. If not breathing, give artificial respiration. Toxic by inhalation. Call a physician or poison control center immediately.
Notes to Physician	Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media	Dry chemical.
Special protective equipment for firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

Personal precautions	Use personal protection equipment.
Methods for cleaning up	Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling	Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment. Ensure adequate ventilation. Keep away from heat, sparks and open flame.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

SECTION 8: Exposure controls/personal protection

Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
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methanol	200 ppm 260 mg/m ³	None	200 ppm	250 ppm
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Engineering measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains.

SECTION 9: Physical and chemical properties

General information

Form	Liquid	
Appearance	No information available	
Odor	Mixture has not been tested	
Odor Threshold	Mixture has not been tested	
Boiling point / boiling range	°C 35	°F >95
Melting point / melting range	°C No data available	°F No data available
flash point	°C >23	°F >73.4
Autoignition Temperature	°C No data available	°F No data available
Oxidizing properties	Mixture has not been tested	
Water solubility	soluble	
Viscosity	Mixture has not been tested	

SECTION 10: Stability and reactivity

Stability	Stable under normal conditions.
Materials to avoid	Strong acids and oxidizing agents. Acid chlorides.
Hazardous decomposition products	No information available.
polymerization	Hazardous polymerization does not occur.

SECTION 11: Toxicological information

Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
methanol	= 5628 mg/kg (Rat)	No data available	=83.2mg/L(Rat)

Principle Routes of Exposure

Potential Health Effects

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eyes	May cause eye irritation with susceptible persons
Skin	Harmful in contact with skin
inhalation	Harmful by inhalation
Ingestion	Harmful if swallowed
Carcinogenic effects	No information available
Mutagenic effects	No information available
Reproductive toxicity	No information available.
Sensitization	No information available
Target Organ Effects	optic nerve (nervus opticus) Central Nervous System (CNS)

SECTION 12: Ecological information

Ecotoxicity	No information available
Aquatic toxicity	log Kow: -0.82- -0.66 Half-life (hr) air: 427 Half-life (hr) H2O surface water: 5.3-64 Henry's atm m³ /mol: 1.35E-04 BOD 5 if unstated: 0.76-1.12 COD: 1.05-1.50,99% ThOD: 1.5 BCF: 0.2-10 Toxicity Fish: LC50(96): 11-15mg/L TLm(48Hr): 8000mg/L (trout)) Toxicity Arthropoda: NOEL 10 g/L/48Hr (Daphnia)) [ICI]
Mobility	see log Pow
Biodegradation	Inherently biodegradable
Bioaccumulation	No information available

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
methanol					logPow-0.77

SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

This product is subject to the de minimis exceptions for dangerous goods / hazardous materials in accordance with the following regulations: IATA 2.6.10, ADR 3.5.1.4, and U.S. DOT 49 CFR 173.4b.

IATA	
Proper Shipping Name	Flammable liquid, n.o.s (Methanol Solution)
Hazard Class	3
Subsidiary class	None
Packing group	III
UN-No	1993

SECTION 15: Regulatory information

Component	TSCA
methanol 67-56-1 (10-30)	Listed

US Federal Regulations

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackaging, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
methanol	67-56-1	10-30	1.0

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:.

Component	CAS-No	Weight %	HAPS data
methanol 67-56-1 (10-30)	67-56-1	10-30	Present

US State Regulations

Chemical Name	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK	Illinois - RTK	Rhode Island - RTK
methanol	Listed	-	Listed	Listed	Listed

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	CAS-No	Weight %	Category
methanol	67-56-1	10-30	Developmental

WHMIS Hazard Class

B2 - Flammable liquid

D2A - Very toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision Not Applicable. SDS sections updated.

For research use only.

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"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"

End of Safety Data Sheet