

SAFETY DATA SHEET

This safety data sheet complies with the requirements of: SS586: 2008 (2014)

Revision date 10-Mar-2025

Revision Number 1.4

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

Product identifier		
Product Name	QXDx AutoDG Droplet Generation Oil	
Other means of identification		
Catalogue Number(s)	1863005, 1864110, 12003020, 12003017	
Pure substance/mixture	Mixture	
Recommended use of the chemical	and restrictions on use	
Recommended use	Laboratory chemicals	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
Corporate Headquarters Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA For further information, please contac	2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories (Singapore) PTE LTD 3A International Business Park #11-10/16 ICON@IBP Singapore 609935
Technical Service	6424 0262 ctssingapore@bio-rad.com	
Emergency telephone number		

24 Hour Emergency Phone Number CHEMTREC Singapore: 65-31581349

SECTION 2: Hazards identification

GHS Classification

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS): SS586: 2008 (2014)

Label elements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS): SS586: 2008 (2014)

Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

Substance

Not applicable

<u>Mixture</u>

Chemical name	EC No (EU Index No)	CAS No.	Weight-%
Hexane, 3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-	435-790-1 (603-224-00-2)	297730-93-9	50 - 100
dodecafluoro-2-(trifluoromethyl)-	(003-224-00-2)		
Non-hazardous	Proprietary	Balanc	e
ingredients			
SECTION 4: First aid m	easures		
Description of first aid measure	es		
General advice	No hazards which require	special first aid measures.	
	-		
Inhalation	Remove to fresh air.		
Eye contact	Rinse thoroughly with pler	ity of water for at least 15 minute	s, lifting lower and upper eyelids.
	Consult a doctor.	,	
Skin contact	Mach akin with soon and	votor in the appendiation invitation	or ellergie reactions and a
Skin contact	doctor.	water. In the case of skin irritatior	i or allergic reactions see a
Most important symptoms and	effects, both acute and delaye	ed	
Symptoms	No information available.		
Cymptonis			
For emergency responders			
Self-protection of the first aider	r No information available.		
Indication of any immediate medical attention and special treatment needed			
Note to doctors	Treat symptomatically.		
ite to dottero			
SECTION 5: Firefighting	g measures		
Suitable Extinguishing Media			
Suitable Extinguishing Media	Use extinguishing measur	es that are appropriate to local ci	rcumstances and the
Canadio Exangaioning modia	surrounding environment.		
Unsuitable extinguishing media	a No information available.		
Unsuitable extinguishing media			
Specific hazards arising from the	he chemical		
	L		
Specific hazards arising from the chemical	from the None known.		
Special protective actions for fire-fighters			

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures		
Personal precautions	Ensure adequate ventilation.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up		
Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).	
Methods for cleaning up	Cover liquid spill with sand, earth or other noncombustible absorbent material.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
Reference to other sections	See section 8 for more information. See section 13 for more information.	

SECTION 7: Handling and storage

Precautions for safe handling	
Advice on safe handling	Ensure adequate ventilation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, includi	ng any incompatibilities
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Working area parameters, subject to mandatory control (MAC or TSEL)

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

Biological occupational exposure limits

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

Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
Hand protection	Wear suitable gloves.
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.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties Physical state Liquid

Appearance	Clear	
Colour	colourless	
Odour	Odourless.	
Odour threshold	No information available	
Odour threshold	NO INICITIATION AVAILABLE	
<u>Property</u> pH	<u>Values</u>	Remarks • Method
Melting point / freezing point	-100 °C	
Initial boiling point and boiling rang		
Flash point	No data available	None known
Evaporation rate	No data available	None known
-	No data available	None known
Flammability	NO UALA AVAIIADIE	None known
Flammability Limit in Air	Ne dete eveileble	None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	
limits		
Vapour pressure	No data available	None known
Relative vapour density	No data available	None known
Relative density	No data available	None known
Water solubility	Immiscible in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	Not applicable	
Oxidising properties	Not applicable	
Other information	No information available	

SECTION 10: Stability and reactivity

Reactivity

Reactivity

No information available.

Chemical stability

Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	
Conditions to avoid	None known based on information supplied.
Incompatible materials	
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	<u>5</u>

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Specific test data for the substance or mixture is not available.	
Ingestion	Specific test data for the substance or mixture is not available.	
Symptoms related to the physical, chemical and toxicological characteristics		

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity No information available

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hexane,		> 2000 mg/kg (Rat)	
3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-			
dodecafluoro-2-(trifluoromethyl)-			
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/eye irritatio	n Based on available data, the classification criteria are not met.		

Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Classification not possible.

SECTION 12: Ecological information

Ecotoxicity

Ecotoxicity

May cause long lasting harmful effects to aquatic life.

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Chemical name	Partition coefficient	
Hexane,	6	
3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-		

Mobility

Mobility in soilNo information available.

PBT and vPvB assessment

This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB)

Chemical name	PBT and vPvB assessment
Hexane,	vPvB substance
3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-	

Other adverse effects

Other adverse effects

No information available

SECTION 13: Disposal considerations

Disposal methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

 ADR
 Not regulated

 IMDG
 Not regulated

 Transport in bulk according to
 No information available

 Annex II of MARPOL and the IBC
 Code

IATA

Not regulated

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Singapore _____

Environmental Public Health Act

Dispose of waste product or used containers according to local regulations.

Hazardous Waste (Control of Export, Import and Transit) Act

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

Poison None Listed Workplace Safety and Health Act Comply with the health and safety at work laws.

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Contact supplier for inventory compliance status

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legena	Section 8: EXPOSURE CONTROLS/PERS	UNAL PROTECTION
TWA	TWA (time-weighted average)	STEL
Ceiling	Maximum limit value	Sk*

STEL (Short Term Exposure Limit) Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) Environmental Protection Agency Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization Label elements P273 - Avoid release to the environment P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

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Disclaimer

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End of Safety Data Sheet