

# SAFETY DATA SHEET

Category 4 - (H413)

This safety data sheet was created pursuant to the requirements of: UK REACH Regulations (SI 2019/758 as amended)

Revision date 10-Mar-2025

### Revision Number 1.2

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

1.1. Product identifier Product Name QXDx AutoDG Droplet Generation Oil Catalogue Number(s) 1863005, 1864110, 12003020, 12003017 Pure substance/mixture Mixture 1.2. Relevant identified uses of the substance or mixture and uses advised against **Recommended use** Laboratory chemicals Uses advised against No information available 1.3. Details of the supplier of the safety data sheet **Corporate Headquarters** Manufacturer Legal Entity / Contact Address Bio-Rad Laboratories Inc. Bio-Rad Laboratories. Life Science Group **Bio-Rad Laboratories Ltd** 1000 Alfred Nobel Drive 2000 Alfred Nobel Drive The Junction Hercules, CA 94547 Hercules, California 94547 Station Road Watford, WD17 1ET USA USA UK For further information, please contact 00800 00246 723 **Technical Service** Techsupport.UK@bio-rad.com 1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC UK: 44-870-8200418

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Hazardous to the aquatic environment - chronic

# 2.2. Label elements

#### Hazard statements

H413 - May cause long lasting harmful effects to aquatic life

#### Precautionary statements

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

#### 2.3. Other hazards

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Not applicable

# 3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Hexane, 3-ethoxy-1,1,1,2,3,4, 4,5,5,6,6,6-dodecaflu oro-2-(trifluoromethyl) - 297730-93-9		435-790-1 (603-224-00-2)	-	Aquatic Chronic 4 (H413)	-	-	-

# Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.	
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.	
Ingestion	Rinse mouth.	
4.2. Most important symptoms and	effects, both acute and delayed	
Symptoms	No information available.	
4.3. Indication of any immediate me	dical attention and special treatment needed	
Note to doctors	Treat symptomatically.	

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

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

Large FireCAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

## 5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the No information available. chemical

5.3. Advice for firefighters

**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**

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.		
For emergency responders	Use personal protection recommended in Section 8.		
6.2. Environmental precautions			
Environmental precautions	See Section 12 for additional Ecological Information.		
6.3. 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			
Methods for cleaning up Prevention of secondary hazards	national regulations (see Section 13).		
0.1	national regulations (see Section 13). Cover liquid spill with sand, earth or other noncombustible absorbent material.		

# **SECTION 7: Handling and storage**

 7.1. Precautions for safe handling
 Ensure adequate ventilation.

 Advice on safe handling
 Ensure adequate ventilation.

 General hygiene considerations
 Wash hands before breaks and immediately after handling the product.

 7.2. Conditions for safe storage, including any incompatibilities

 Storage Conditions
 Store according to product and label instructions.

 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

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.	
Derived No Effect Level (DNEL)	No information available.	
Predicted No Effect Concentration (PNEC)	No information available.	
8.2. Exposure controls		
Engineering controls	No information available.	
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.	

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Clear	
Colour	colourless	
Odour	Odourless.	
Odour threshold	No information available	
Property_	Values_	Remarks • Method
Melting point / freezing point	-100 °C	
Initial boiling point and boiling rang	<b>e</b> 129 °C	
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
рН		None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known

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### 9.2. Other information

# **SECTION 10: Stability and reactivity**

10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
10.3. Possibility of hazardous reaction	ons
Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid	
Conditions to avoid	None known based on information supplied.
10.5. Incompatible materials	
Incompatible materials	None known based on information supplied.
10.6. Hazardous decomposition pro	ducts_

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

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

### **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	No information available.	
Serious eye damage/eye irritation	No information available.	
Respiratory or skin sensitisation	No information available.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Aspiration hazard	No information available.	
Other adverse effects	No information available.	
	SECTION 12: Ecological information	
<u>12.1. Toxicity</u>		
Ecotoxicity	May cause long lasting harmful effects to aquatic life.	
12.2. Persistence and degradability	,	
Persistence and degradability	No information available.	

## 12.3. Bioaccumulative potential

### **Bioaccumulation**

#### **Component Information**

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

## 12.4. Mobility in soil

Mobility in soil No information available.

# 12.5. Results of PBT and vPvB assessment

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)-	

# 12.6. Endocrine disrupting properties

No information available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Avoid release to the environment and prevent entry into sewer systems or bodies of water. As a disposal alternative, incinerate in a permitted high-temperature waste incineration facility.
Contaminated packaging	Do not reuse empty containers for any purpose other than specified in the user guide.

# **SECTION 14: Transport information**

# <u>IATA</u>

14.1 U	N number or ID number	Not regulated
14.2 U	N proper shipping name	Not regulated
14.3 T	ransport hazard class(es)	Not regulated
14.4 P	acking group	Not regulated
14.5 E	nvironmental hazards	Not applicable
14.6 S	pecial precautions for user	
Spe	cial Provisions	None
IMDG		
14.1 U	N number or ID number	Not regulated
14.2 U	N proper shipping name	Not regulated
14.3 T	ransport hazard class(es)	Not regulated
14.4 P	acking group	Not regulated
14.5 E	nvironmental hazards	Not applicable
14.6 S	pecial precautions for user	
Spe	cial Provisions	None
14.7 N	laritime transport in bulk	No information available
accord	ing to IMO instruments	

RID		
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not regulated
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	
S	pecial Provisions	None
ADR		
<u>ADR</u> 14.1	UN number or ID number	Not regulated
14.1	UN number or ID number UN proper shipping name	Not regulated Not regulated
14.1 14.2	•••••••••••••••••••••••••••••••••••••••	0
14.1 14.2	UN proper shipping name	Not regulated
14.1 14.2 14.3 14.4	UN proper shipping name Transport hazard class(es)	Not regulated Not regulated
14.1 14.2 14.3 14.4 14.5	UN proper shipping name Transport hazard class(es) Packing group	Not regulated Not regulated Not regulated
14.1 14.2 14.3 14.4 14.5 14.6	UN proper shipping name Transport hazard class(es) Packing group Environmental hazards	Not regulated Not regulated Not regulated

# **SECTION 15: Regulatory information**

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

#### National regulations

## Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

### **Persistent Organic Pollutants**

Not applicable

## **Export Notification requirements**

Not applicable

Named dangerous substances per COMAH (SI 2015/483 as amended) Not applicable

# The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended) Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended) Not applicable

Poisons and Explosive Precursors Not applicable

International Inventories Contact supplier for inventory compliance status

#### 15.2. Chemical safety assessment

Chemical Safety Report

No information available

# **SECTION 16: Other information**

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

#### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H413 - May cause long lasting harmful effects to aquatic life

#### Legend

STOT - single exposure

Acute aquatic toxicity

Aspiration hazard

Ozone

Chronic aquatic toxicity

STOT - repeated exposure

SVHC: Substances of Very High Concern for Authorisation: vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitisers		

Classification procedure
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute oral toxicity
Acute dermal toxicity
Acute inhalation toxicity - gas
Acute inhalation toxicity - vapour
Acute inhalation toxicity - dust/mist
Skin corrosion/irritation
Serious eye damage/eye irritation
Respiratory sensitisation
Skin sensitisation
Mutagenicity
Carcinogenicity
Reproductive toxicity

Calculation method Calculation method

Method Used

### 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) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC) European Chemicals Agency (ECHA) (ECHA\_API) **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) National Institute of Technology and Evaluation (NITE) 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 World Health Organization

### **Revision date**

10-Mar-2025

#### **Revision Note**

Reformatted and updated existing information

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet