SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

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

1.1. Product identifier

Product Code(s)       DRE-C11899000
Product Name           CypyrAfluone

NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II

EC No (EU Index No)   -
CAS No                 1855929-45-1
Pure substance/mixture Substance
Formula                C₂₀H₁₉ClF₃N₃O₃
Molecular weight       441.83

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

Recommended use       Laboratory use
Uses advised against   No information available

1.3. Details of the supplier of the safety data sheet

Supplier
LGC Limited
Queens Road
Teddington
Middlesex TW11 0LY
UNITED KINGDOM
:+44 (0) 20 8943 7000
Fax:+44 (0) 20 8943 2767
eMail : gb@lgcstandards.com
Web : www.lgcstandards.com

For further information, please contact

E-mail address         sds-request@lgcgroup.com

1.4. Emergency telephone number
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cyptrafluone

Emergency Telephone
For Hazardous Materials or Dangerous Goods Incident
Spill, Leak, Fire Exposure, or Accident
Call CHEMTREC:
USA & Canada 1-800-424-9300
Rest of the world +1 703-741-5970

Emergency Telephone - §45 - (EC)1272/2008

<table>
<thead>
<tr>
<th>Country</th>
<th>Number</th>
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<tbody>
<tr>
<td>Europe</td>
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<td>Austria</td>
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<td>Bulgaria</td>
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<td>Cyprus</td>
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<td>Czech Republic</td>
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<td>Sweden</td>
<td></td>
</tr>
<tr>
<td>Switzerland</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Property</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4 - (H302)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2 - (H315)</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2 - (H319)</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 2 - (H411)</td>
</tr>
</tbody>
</table>

2.2. Label elements
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cypyrafluone

Signal word
Warning

Hazard statements
H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)
P264 - Wash face, hands and any exposed skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P337 + P313 - If eye irritation persists: Get medical advice/attention
P391 - Collect spillage

2.3. Other hazards

Toxic to aquatic life.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Weight-%</th>
<th>REACH registration number</th>
<th>EC No (EU Index No)</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP]</th>
<th>Specific concentration limit (SCL)</th>
<th>M-Factor</th>
<th>M-Factor (long-term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cypyrafluone</td>
<td>100</td>
<td>-</td>
<td>-</td>
<td>Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures

General advice
Show this safety data sheet to the doctor in attendance.

Inhalation
Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact
Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion
Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.

Self-protection of the first aider
Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms
May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical 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 Fire
CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media
Do not scatter spilled material with high pressure water streams.
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 28-Nov-2022 Revision Number 1

DRE-C11899000 - Cyptrafluone

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical
No information available.

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
Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

Other information
Refer to protective measures listed in Sections 7 and 8.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions
Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections
See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cypyratfluone

General hygiene considerations
Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

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

Personal protective equipment

Eye/face protection
Avoid contact with eyes. Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves.

Gloves
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cypyrfluone

<table>
<thead>
<tr>
<th>Duration of contact</th>
<th>PPE - Glove material</th>
<th>Glove thickness</th>
<th>Break through time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wear protective Viton™ gloves</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin and body protection
Wear suitable protective clothing. Long sleeved clothing.

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.

General hygiene considerations
Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

Environmental exposure controls
Do not allow into any sewer, on the ground or into any body of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
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<tr>
<td>Appearance</td>
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<tr>
<td>Colour</td>
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<tr>
<td>Odour threshold</td>
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<tr>
<td>Melting point / freezing point</td>
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<td>Upper flammability or explosive limits</td>
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<tr>
<td>Lower flammability or explosive limits</td>
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<td>Vapour pressure</td>
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</tr>
<tr>
<td>Relative density</td>
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<td>None known</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cyptrafluone

Bulk density
Liquid Density
Relative vapour density
Particle characteristics
  Particle Size
  Particle Size Distribution
Molecular weight
Molecular formula

9.2. Other information
9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

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 impact
  Sensitivity to static discharge
None.
None.

10.3. Possibility of hazardous reactions
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

Hazardous decomposition products
None known based on information supplied.

SECTION 11: Toxicological information
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cypermethrin

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation
Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact
Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact
Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).

Ingestion
Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity
No information available

Acute toxicity

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Classification based on data available for ingredients. Causes skin irritation. May cause skin irritation.

Serious eye damage/eye irritation
Classification based on data available for ingredients. Causes serious eye irritation.

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.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties  No information available.

11.2.2. Other information

Other adverse effects  No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity  Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability  No information available.

12.3. Bioaccumulative potential

Bioaccumulation  No information available.

12.4. Mobility in soil

Mobility in soil  No information available.

12.5. Results of PBT and vPvB assessment
SAFETY DATA SHEET
This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cyptrafluone

PBT and vPvB assessment
No information available.

12.6. Endocrine disrupting properties
Endocrine disrupting properties
No information available.

12.7. Other adverse effects
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.

Contaminated packaging
Do not reuse empty containers.

SECTION 14: Transport information

IATA
Notes

14.1 UN number or ID number
UN3077

14.2 UN proper shipping name
Environmentally hazardous substances, solid, n.o.s. (Cyptrafluone)

14.3 Transport hazard class(es)
9

14.4 Packing group
III

Description
UN3077, Environmentally hazardous substances, solid, n.o.s. (Cyptrafluone), 9, III

14.5 Environmental hazards
Yes

14.6 Special precautions for user
A97, A158, A179, A197, A215

ERG Code
9L

IMDG
Notes

14.1 UN number or ID number
UN3077

14.2 UN proper shipping name
Environmentally hazardous substances, solid, n.o.s. (Cyptrafluone)

14.3 Transport hazard class(es)
9

14.4 Packing group
III

Description
UN3077, Environmentally hazardous substances, solid, n.o.s., 9, III, Marine pollutant

14.5 Marine pollutant
P

Environmental hazards
Yes

14.6 Special precautions for user
274, 335, 966, 967, 969

Could not find a Marine Pollutant Name.
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cyptrafluone

EmS-No
14.7 Maritime transport in bulk according to IMO instruments
F-A, S-F No information available
No information available

RID
Notes
14.1 UN number or ID number UN3077
14.2 UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (Cyptrafluone)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description UN3077, Environmentally hazardous substances, solid, n.o.s. (Cyptrafluone), 9, III
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 274, 335, 375, 601
Classification code M7

ADR
Notes
14.1 UN number or ID number UN3077
14.2 UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (Cyptrafluone)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description UN3077, Environmentally hazardous substances, solid, n.o.s. (Cyptrafluone), 9, III, (-)
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 274, 335, 601, 375
Classification code M7
Tunnel restriction code (-)

SECTION 15: Regulatory information

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

Water hazard class (WGK) non-hazardous to water (nwg)

Poland

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022
Revision Number 1

DRE-C11899000 - Cyptrafluone


European Union
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.

Authorisations and/or restrictions on use:
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors
Not applicable

Persistent Organic Pollutants
Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

International Inventories
TSCA
Complies under research and development exemption or is regulated by a different
SAFETY DATA SHEET
This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022 Revision Number 1

DRE-C11899000 - Cypyralfolate

government agency.

DSL/NDSL Contact supplier for inventory compliance status
EINECS/ELINCS Contact supplier for inventory compliance status
ENCS Contact supplier for inventory compliance status
IECSC Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status
PICCS Contact supplier for inventory compliance status
AICS Contact supplier for inventory compliance status

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3
H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Legend
SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection
TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value * Skin designation

Classification procedure
Classification according to Regulation (EC) No. 1272/2008 [CLP] Method Used
Acute oral toxicity On basis of test data
Acute dermal toxicity Calculation method
Acute inhalation toxicity - gas Calculation method
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:

Revision date 28-Nov-2022

Revision Number 1

DRE-C11899000  -  Cypyrfluone

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Method/Calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation toxicity - Vapour</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute inhalation toxicity - dust/mist</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Respiratory sensitisation</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute aquatic toxicity</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Chronic aquatic toxicity</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Ozone</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

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)
EPA (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)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
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 28-Nov-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet