



HOSES & LUBRICANTS  
FOR PERISTALTIC  
HOSE PUMPS

# MATERIAL SAFETY DATA SHEET COMMISSION REGULATION (EU) 2020/878

## SECTION 1. Identification of the substance/preparation and of the company undertaking

### 1.1 Product identifier

**Product name:** OVATIO – OVOLUBR HOSE PUMP LUBRICANT/COOLANT

**Additional data:** **Lubricant for Hose Pumps.**

Category Code: H1

NSF Registration No. 163786

#### Packing and article identification:

Item number	Description
O909143	LUBRICANT 1 LITRE
O903143	LUBRICANT 5 LITRES
O904143	LUBRICANT 10 LITRES
O907143	LUBRICANT 200 LITRES

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

Relevant uses: Lubricant, for industrial use only

**Uses advised against: All uses not specified in this section or in section 7.3**

### 1.3 Details of the supplier of the safety data sheet

#### Company identification:

AxFlow Holding AB  
Sveavägen 151, Floor 5  
SE-113 46 Stockholm, Sweden

1.4 Emergency telephone number: **+ 46 8 545 476 70 (Office hours)**



## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

CLP Regulation (EC) No 1272/2008:

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008

### 2.2 Label elements

CLP Regulation (EC) No 1272/2008:

None

### 2.3 Other hazards

Product does not meet PBT/vPvB criteria.

Endocrine-disrupting properties: The product does not meet the criteria.

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Non – applicable

### 3.2 Mixtures

Chemical description

Components:

None of the substances contained in the mixture are above the limits specified in Annex II of Regulation (EC) No 1907/2006

## SECTION 4. First-aid measures

### 4.1 Description of first aid measures

Consult a doctor in case of discomfort showing the SDS for the product.

By inhalation:

In case of symptoms, move the person affected into fresh air.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet



By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

#### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

## SECTION 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

If possible, use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling, and use.

### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible



to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6. Accidental release measures

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

For non-emergency personnel:

Isolate leaks provided that if there is no additional risk for the people performing this task.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface, and ground water.

### 6.3 Methods and material for containment and cleaning up:

It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.



D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8. Exposure controls/Personal protection

8.1 Control parameters

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
	Ethanediol CAS: 107-21-1EC: 203-473-3	IOELV (8h)	20 ppm
	IOELV (STEL)	40 ppm	104 mg/m <sup>3</sup>

DNEL (Workers):

Non-applicable

DNEL (General population):

Non-applicable

PNEC:

Non-applicable

8.2 Exposure controls:





A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+ A1:2010 and EN ISO 374-1:2016+A1:2018



As the product is a mixture of several substances, the resistance of the glove material cannot be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.



E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F.- Additional emergency measures

It is not necessary to take additional emergency measures.

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

Regarding Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight  
V.O.C. density at 20 °C: 0 kg/m<sup>3</sup> (0 g/L)  
Average carbon number: non-applicable  
Average molecular weight: non-applicable



## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

For complete information see the product datasheet.

Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold:	Liquid Fluid Green Not available Not applicable *
Volatility: Boiling point at atmospheric pressure: Vapour pressure at 20 °C: Vapour pressure at 50 °C: Evaporation rate at 20 °C:	102 °C 2324 Pa 12245,22 Pa (12,25 kPa) Non-applicable *
Product description: Density at 20 °C: Relative density at 20 °C: Dynamic viscosity at 20 °C: Kinematic viscosity at 20 °C: Kinematic viscosity at 40 °C: Concentration: pH: Vapour density at 20 °C: Partition coefficient n-octanol/water 20 °C: Solubility in water at 20 °C: Solubility properties: Decomposition temperature: Melting point/freezing point:	1258,7 kg/m <sup>3</sup> 1,259 Not applicable * Not applicable * Not applicable * Not applicable * Not applicable * Not applicable * Not applicable * Not applicable * Not applicable * Not applicable * Not applicable * -18.00 °C at 1013.0 hPa
Flammability: Flash Point: Flammability (solid, gas): Autoignition temperature: Lower flammability limit: Upper flammability limit:	Non-Flammable (>60 °C) Not applicable * 400 °C Not applicable * Not applicable *
Particle characteristics: Median equivalent diameter:	Not applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

### 9.2 Other information:

Surface tension at 20 °C: Refraction index: Information with regard to physical hazard classes: Explosive properties: Oxidising properties: Corrosive to metals: Heat of combustion: Aerosols-total percentage (by mass) of flammable components:  Other safety characteristics: Surface tension at 20 °C: Refraction index:	Not applicable * Not applicable * Not applicable * 15,33 kJ/g  Not applicable *  Not applicable * Not applicable *
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\*Not relevant due to the nature of the product, not providing information property of its hazards.





## SECTION 10. Stability and reactivity

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the conditions of storage, handling, and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

**Applicable for handling and storage at room temperature:**

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
N/A	N/A	N/A	N/A	N/A

### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Other
Avoid strong acids	N/A	N/A	N/A	Avoid alkalis or strong bases

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

LD<sub>50</sub> oral > 2000 mg/kg (rat)

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:



A.- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met
- Corrosiveness/Irritability: Based on available data, the classification criteria are not met

B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met
- Corrosiveness/Irritability: Based on available data, the classification criteria are not met

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met.
- Contact with the eyes: Based on available data, the classification criteria are not met

D- CMR effects (carcinogenicity, mutagenicity, and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met (IARC: C.I. Acid Blue 9 (3))
- Mutagenicity: Based on available data, the classification criteria are not met
- Reproductive toxicity: Based on available data, the classification criteria are not met

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met
- Skin: Based on available data, the classification criteria are not met

F- Specific target organ toxicity (STOT) - single exposure:

- Based on available data, the classification criteria are not met

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
- Skin: Based on available data, the classification criteria are not met

H- Aspiration hazard:

- Based on available data, the classification criteria are not met

Other information:



Not applicable

**Specific toxicology information on the substances:**

Not available

**Acute Toxicity Estimate (ATE mix):**

ATE mix		Ingredient(s) of unknown toxicity
Oral	>2000 mg/kg (Calculation method)	Non-applicable
Dermal	>2000 mg/kg (Calculation method)	Non-applicable
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable

**11.2 Information on other hazards:**

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information:

Non-applicable

## SECTION 12. Ecological information

The experimental information related to the eco-toxicological properties of the product itself is not available.

**12.1 Toxicity**

Identification	Acute toxicity		Species	Genus
Ethane-1,2-diol	LC50	53000 mg/L (96 h)	Pimephales promelas	Fish
CAS: 107-21-1	EC50	51000 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-473-3	EC50	24000 mg/L (168 h)	Selenastrum capricornutum	Algae

**12.2 Persistence and degradability**

Identification	Degradability		Biodegradability	
Glycerol	BOD5	N/A	Concentration	100 mg/L
CAS: 56-81-5	COD	N/A	Period	14 days
EC: 200-289-5	BOD5/COD	N/A	% Biodegradable	63%

Identification	Degradability		Biodegradability	
Ethane-1,2-diol	BOD5	0,47 g O <sub>2</sub> /g	Concentration	100 mg/L
CAS: 107-21-1	COD	1,29 g O <sub>2</sub> /g	Period	14 days
EC: 203-473-3	BOD5/COD	0,36	% Biodegradable	90%



### 12.3 Bio-accumulative potential

Identification	Bioaccumulation potential	
Glycerol	BCF	3
CAS: 56-81-5	Pow Log	-1,76
EC: 200-289-5	Potential	Low

Identification	Bioaccumulation potential	
Ethane-1,2-diol	BCF	10
CAS: 107-21-1	Pow Log	-1,36
EC: 203-473-3	Potential	Low

### 12.4 Mobility in soil

Identification	Absorption/desorption		Volatility	
Glycerol	Koc	N/A	Henry	N/A
CAS: 56-81-5	Conclusion	N/A	Dry soil	N/A
EC: 200-289-5	Surface tension	6,516E-2 N/m (25 °C)	Moist soil	N/A

Identification	Absorption/desorption		Volatility	
Ethane-1,2-diol	Koc	0	Henry	1,327E-1 Pa.m <sup>3</sup> /mol
CAS: 107-21-1	Conclusion	Very High	Dry soil	No
EC: 203-473-3	Surface tension	4,989E-2 N/m (25 °C)	Moist soil	No

### 12.5 Results of PBT and vPvB assessment

Product fails to meet PBT/vPvB criteria

### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

### 12.7 Other adverse effects

None described.

## SECTION 13. Disposal considerations

### 13.1 Waste treatment methods

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	Non dangerous

Type of waste (Regulation (EU) No 1357/2014):

Not-applicable

Waste management (disposal and evaluation):



Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14. Transport information

### Transport of dangerous goods by land:

Regarding ADR 2023 and RID 2023:

14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user:	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	See section 9
	Limited quantities:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

### Transport of dangerous goods by sea:

Regarding IMDG 40-20:

14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Marine pollutant:	No
14.6	Special precautions for user:	



	Special regulations:	Non-applicable
	EmS codes:	Non-applicable
	Physico-Chemical properties:	See section 9
	Limited quantities:	Non-applicable
	Segregation group:	Non-applicable
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

#### Transport of dangerous goods by air:

Regarding IATA/ICAO 2023:

14.1	UN number or ID number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user:	
	Physico-Chemical properties:	See section 9
14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable

## SECTION 15. Regulatory information

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not applicable.

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not applicable.

Article 95, REGULATION (EU) No 528/2012: Not applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not applicable

Seveso III:

Non-applicable

Limitations to commercialization and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):



Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation.

#### 15.2 Chemical safety assessment

The supplier has not carried out evaluation of chemical safety.

## SECTION 16. Other information

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

CLP Regulation (EC) No 1272/2008:

Non-applicable

Classification procedure:

Non-applicable

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:



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<http://echa.europa.eu>

<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road.

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

COD: Chemical Oxygen Demand

BOD<sub>5</sub>: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD<sub>50</sub>: Lethal Dose 50

LC<sub>50</sub>: Lethal Concentration 50

EC<sub>50</sub>: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon UFI: unique formula identifier

IARC: International Agency for Research on Cancer

*The information contained in this safety data sheet is based on sources, technical knowledge, and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.*

*- End of Safety Data Sheet -*