

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

This Safety Data Sheet is based on the Safety Data Sheet, issued 2016-08-16 from the manufacturer of the Immersion oil IO Type 300:

Company Cargille Laboratories
55 Commerce Road
Cedar Grove, NJ 07009-1289, USA
Telephone +973 239-6633
E-Mail compliance@cargille.com
Website www.cargille.com

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade names and article numbers:	XU-10135-01	CellaVision Oil Pack, 2 x 150ml
	XU-10135-02	CellaVision Oil Pack, 1 x 150 ml
	XU-10249	Immersion oil Type 300, 473 ml (16 oz)
	XU-10319	Immersion oil, 50 ml

Contents: Cargille Immersion Oil Type 300

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

Conditions of Intended Use: As a Microscope Immersion Oil at normal room pressure 101,32 kPa (760 mm Hg), temperature 7 °C to 40 °C (45 °F to 104 °F) in a non-misted / non airborne state in a room having normal air changes (2) / HR., in a trained and supervised laboratory / industrial setting using standard Good Laboratory/Good Manufacturing procedures. Used in single drop to a few cubic centimeters per application.

Uses advised against: Contact manufacturer

1.3 Details of the supplier of the safety data sheet

Company CellaVision AB
Mobilvägen 12
SE-223 62 Lund
Sweden
Telephone +46-(0)46 460 16 00
Website www.cellavision.com

1.4 Emergency telephone number

In case of emergency contact toxicological information, emergency tel 112 (within Europe) or 911 (for USA and Canada). For other countries, use the built-in emergency number in your cell phone.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class and Category Code: Aquatic Chronic 2

Hazard Code and Statement: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictogram



Signal word:

No signal word is used

Hazard statement:

H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P273 Avoid release to the environment

P391 Collect spillage

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Labelling of packages where the contents do not exceed 125 ml according to section 1.5.2 of the Regulation (EC) No 1272/2008.

Hazard pictogram



Signal word:

None

Hazard statement:

None

Precautionary statements:

None

2.3 Other hazards

There are no other hazards not otherwise classified that have been identified.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components		
CAS No 8012-95-1 EC No 232-384-2	Paraffin oils  Asp. Tox. 1, H304, Aquatic Chronic 4, H413	20-40%
CAS No 9003-29-6 EC No 500-004-7	Butene, homopolymer (products derived from either /or But-1-ene/But-2-ene)  Asp. Tox. 1, H304	20-40%
CAS No 26410-60-3 EINECS: 247-477-3 Reg. nr.: 01-2119488220-43-XXXX	Terphenyl  Aquatic Chronic 1, H410	1-<2.5%

Additional information: For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: FIRST AID MEASURE

4.1 Description of first aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders when ingested.

Irritant to skin and mucous membranes.

4.3 Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

Foam

Fire-extinguishing powder

Gaseous extinguishing agents

Carbon dioxide

Water haze or fog

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

For safety reasons unsuitable extinguishing agents:

Water with full jet
Water spray

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for fire-fighters

Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment.
Keep unprotected persons away.
Ensure adequate ventilation.

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

avoid splashes or spray in enclosed areas.
Information about fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Avoid storage near extreme heat, ignition sources or open flame.
Store in a well-ventilated place. Keep cool.

Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from oxidisers, strong acids, strong bases.

Further information about storage conditions:

Storage Temperatures: 65 - 90 °F / 18 - 32 °C.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

Keep container tightly sealed.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs: No further relevant information available.

PNECs: No further relevant information available.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Respiratory protection:

Not required under normal conditions of use.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

Body protection:

Protective work clothing

Limitation and supervision of exposure into the environment:

No further relevant information available.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form:	Liquid
Colour:	Light yellow
Odour:	Slight
Odour threshold:	Not determined
pH-value:	Not applicable
Melting point/Melting range:	<0 °C
Boiling point/Boiling range:	340 °C (1 atm / 1,0132 bar)
Flash point:	163°C (Open Cup)
Flammability (solid, gaseous):	Not applicable
Auto/Self-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Not determined

Explosion limits

Lower:	Not determined
Upper:	Not determined

Oxidizing properties:

Not determined

Vapour pressure:

<.,133 hPA (<0.1 mmHg)

Density:

0.923 g/cm³

Relative density:

Not determined

Vapour density:

Not determined

Evaporation rate at 20°C:

<1.0 (n-Butyl Acetate = 1.0)

Solubility in /Miscibility with water:

Not miscible or difficult to mix

Partition coefficient (n-octanol/water):

Not determined

Viscosity:

Dynamic at 23°C: 300 cSt

Kinematic at 40°C: >20.5 mm²/SEC (Estimate)

9.2 Other information

No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available

10.2 Chemical stability

Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

Reacts with strong oxidising agents.

Reacts with strong acids and alkali.

10.4 Conditions to avoid

Excessive heat.

Store away from oxidising agents.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification: None.

Primary irritant effect

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

IARC (International Agency for Research on Cancer): None of the ingredients are listed.

Probable routes of exposure: Ingestion. Inhalation Eye contact. Skin contact.

Acute effects (acute toxicity, irritation and corrosivity): None.

Repeated dose toxicity: None.

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: Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:

Remark:

Harmful to fish

Toxic for water fleas

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

DOT Exempt
ADR, IMDG, IATA UN3082

14.2. UN proper shipping name

DOT Exempt
ADR, IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (TERPHENYL).

14.3 Transport hazard class(es)

DOT
Class Exempt

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

ADR



**Class
Label**

9 (M6) Miscellaneous dangerous substances and articles.
9

IMDG, IATA



**Class
Label**

9 Miscellaneous dangerous substances and articles.
9

14.4 Packing group

DOT

Exempt

ADR, IMDG, IATA

III

14.5 Environmental hazards

Marine pollutant:

Yes
Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler):

90

EMS Number:

F-A, S-F

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following:
DOT: 171.4(c)(2)
ADR: SP 375
IMDG: 2.10.2.7
IATA: special provision A197

ADR

Transport category:

3

Tunnel restriction code:

E

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

SECTION 15: REGULATORY INFORMATION

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

Carcinogenic Categories

IARC (International Agency for Research on Cancer): None of the ingredients are listed

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are listed.

Seveso category: E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements: 100 t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t

National regulations:

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Other regulations, limitations and prohibitive regulations:

Substances of very high concern (SVHC) according to REACH, Article 57: None of the ingredients are listed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information supplied is based on data available to us and is believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to this information presented and Cargille Laboratories assumes no responsibility for the result of the use of this product. This information is furnished upon the condition that the persons responsible for its use shall make their own determination of the suitability of the material for their particular purpose. Please note that we consider the English version to be the authoritative version for compliance and regulatory purposes.

Relevant phrases:

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing

Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

CELLAVISION

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

LDLo: Lowest Lethal Dose Observed

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

For Cargille:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924

Intl. +01 813-248-0573

Website: www.chemtelinc.com

For CellaVision

CellaVision AB

Mobilvägen 12

SE-223 62 Lund

Sweden

+46 46 460 1600

www.cellavision.com