

SAFETY DATA SHEET

In accordance with 453/2010 and 1272/2008

(All references to EU regulations and directives are abbreviated into only the numeric term)

Issued: 2016-02-11

Replaces issue: Not applicable

This Safety Data Sheet is based on the Safety Data Sheet, issued 2014-06-19 from the manufacturer of the immersion oil IO Type 300:

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

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

1.1 Product identifier

Trade name:	CellaVision Oil Pack
Cat. No.:	XU-10135-01 (2x150 ml) XU-10135-02 (1x150 ml)
Contents:	IO Type 300 Immersion Oil

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

Identified uses	Microscope Immersion Oil
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1.3 Details of the supplier of the safety data sheet

Company	CellaVision AB Ideon Science Park SE-223 70 Lund Sweden
Telephone	+46-(0)46-286 44 00
E-Mail	info@cellavision.com
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
For non-emergency poison information, see
<http://www.who.int/ipcs/poisons/centre/directory/euro/en/>

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with 1272/2008

Upon assessment, this mixture is not classified as hazardous according to 1272/2008.

Classification in accordance with 1999/45/EG

Upon assessment this product is not classified as hazardous.

2.2 Label elements

Label information in accordance with 1272/2008

Hazard pictograms	Not applicable
Signal words	Not applicable
Hazard statements	Not applicable

Label information in accordance with 1999/45/EG

See Section 16.

2.3 Other hazards

Not relevant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product consists of a homogeneous liquid mixture.

3.2 Mixtures

Note that the table shows known hazards of the ingredients in a pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Reduced or Eliminated when Mixed or Analyzed, See Section 12.4.			
Constituent		Classification	Concentration
MINERAL OIL			
CAS No	8042-47-5	-	30 – 50%
EC No	232-455-8	;-	
HYDROGENATED TERPHENYL			
CAS No	61788-32-7	-	30 – 50%
EC No	262-967-7	;-	
POLYBUTENE			
CAS No	9003-29-6	-	15 – 30%
EC No	500-004-7	;-	
TERPHENYL			
CAS No	26410-60-3	-	5 – 9%
EC No	247-477-3	;-	

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complement used in the calculation of the hazards of this mixture, see Section 16b

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Upon breathing in

Allow the injured person to rest in a warm place with fresh air, if symptoms persist seek medical advice.

Administer oxygen if required.

Upon contact with the eyes

Flush eyes immediately with lukewarm water for 15 – 20 minutes with wide-open eyes. Seek medical attention at once.

Upon skin contact

Remove contaminated clothes.

Wash the skin with soap and water.

Upon ingestion

DO NOT induce vomiting.

Contact a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Information on symptoms are ambiguous or missing for this product.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Extinguish with water mist, powder, carbon dioxide or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.

5.3 Advice for fire-fighters

In case of fire use a respirator mask.

Protective measures should be taken regarding other material at the site of the fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use recommended safety equipment, see section 8.

Ensure good ventilation.

Avoid contact with skin and eyes.

6.2 Environmental precautions

Avoid emissions into soil, water or air.

Avoid discharge into sewers.

6.3 Methods and material for containment and cleaning up

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.

Contaminated products should be treated as chemical waste and declared as non-hazardous goods.

6.4 Reference to other sections

Not applicable

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not inhale the fumes and avoid exposure to skin, eyes and clothing.

Store this product separately from food items and keep it out of the reach of children and pets.

Do not eat, drink or smoke in premises where this product is stored.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed package at normal room temperature.

Handle in premises which have modern ventilation standards.

Store in a well-ventilated space.

Emergency showers and eye-rinsing facilities must be available at the workplace.

Do not store in direct sunlight.

Store only in the original package.

7.3 Specific end uses

Not relevant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 National limit values, United States

All ingredients (cf. Section 3) lack occupational exposure limit values.

8.2 Exposure controls

In terms of minimizing risks, attention must be paid to the physical hazards (see Sections 2 and 10) of this product according to EU directives 89/391 and 98/24 and national occupational legislation.

Use protective glasses, safety goggles, or a visor.

Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks.

Special measures for protection of the skin are necessary only in rare working situations. In case of doubt, consult occupational expertise. Show this safety data sheet.

Use proper protective breathing equipment in case of insufficient ventilation.

For limitation of environmental exposure, see Section 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: light yellow
b) Odour	Weak smell characteristic
c) Odour threshold	Not applicable
d) pH	Not applicable
e) Melting point/freezing point	0 °C
f) Initial boiling point and boiling range	340 °C at atmospheric pressure (101325 Pa)
g) Flash point	>165°C
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapour pressure	0.10 kPa
l) Vapour density	1.00
m) Relative density	0.9 kg/L
n) Solubility	Not applicable
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	Not applicable
r) Viscosity	300 cSt
s) Explosive properties	Not applicable
t) Oxidising properties	Not applicable

9.2 Other information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2 Chemical stability

The product is stable at normal storage and handling conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Protect from heat.

10.5 Incompatible materials

Avoid contact with oxidizers.

10.6 Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂) and harmful and irritating substances.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

General or unspecific toxicity

The product is not classified as toxic.

Acute effects

Not classified as an acutely toxic substance.

Harmfulness

The product is not classified as harmful to health.

Carcinogenicity

To the best of our knowledge, no carcinogenic effects have been reported for this product.

CMR effects

To the best of our knowledge, no mutagenic or otherwise genetic or reproductive toxic effects have been reported for this product.

Corrosive and irritating effects

The product is not corrosive. Minor irritation cannot be ruled out for persons who are prone/susceptible.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Information about the effects on the environment is not available.

12.2 Persistence and degradability

There is no information regarding persistence or degradability.

12.3 Bioaccumulative potential

There is no information regarding bioaccumulation.

12.4 Mobility in soil

Information about mobility in nature is not available

12.5 Results of PBT and vPvB assessment

No chemical safety report has been executed.

12.6 Other adverse effects

Not indicated

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste handling for the product

Discarded products must be disposed of as hazardous waste in accordance with regulations.
Not completely empty packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely empty packaging can be recycled.
Avoid discharge into sewers.
Observe local regulations.
Cf. also national waste regulations.

Recycling of the product

Residual, old or contaminated product should be disposed of at a waste management facility.

Transportation of waste

Not indicated

SECTION 14: TRANSPORT INFORMATION

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1 UN number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

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

Not applicable

SECTION 15: REGULATORY INFORMATION

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

Not applicable.

15.2 Chemical safety assessment

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

SECTION 16: OTHER INFORMATION

16a Indication of where changes have been made to the previous version of the safety data sheet

Revisions of this document

Earlier versions: Not applicable

16b Legend to abbreviations and acronyms used in the safety data sheet

Full texts for Hazard Class and Category Code mentioned in section 3

<i>Combust Liq</i>	Combustible liquids with flash points > 93 C
<i>No tox haz</i>	Not classified as toxic
<i>No environmental hazard</i>	Not classified as being environmentally hazardous
<i>No phys haz</i>	Non-assigned physical hazard

Explanations of the abbreviations in Section 14

ADR	European Agreement concerning the International Transport of Dangerous Goods by Road
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
AND	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG	International Maritime Dangerous Goods Code
ICAO	International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA	The International Air Transport Association

16c Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2014-06-19. Where such data was lacking, on the second hand the documentation on which this official classification is based was used, e.g. IUCLID (International Uniform Chemical Information Database). On the third hand, information was used from reputable international chemical suppliers, and on the fourth hand from other available information, e.g. safety data sheets from other suppliers or information from non-profit associations, whereby the reliability of the source was judged by an expert. If, in spite of this, reliable information was not found, the hazards were judged by expert opinions based on the known properties of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

453/2010	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
1999/45/EG	DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations
89/391	COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

- 98/24 COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)
- 1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC Annex I

16d Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

The calculation of the hazards of this mixture has been performed as an evaluation by applying a weight of evidence determination using expert judgment in accordance with 1272/2008 Annex I, weighing all available information having a bearing on the determination of the hazards of the mixture, and in accordance with 1907/2006 Annex XI.

16e List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

16f Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

This product is not expected to cause severe harm to humans or the environment. However the manufacturer, the distributor or the supplier cannot be responsible for unusual or criminal use of the product.

Other relevant information

Label information in accordance with 1999/45/EG

Hazard symbol	Not applicable
R-phrases	Not applicable
S-phrases	Not applicable

Product facts that are not mentioned elsewhere in this document

The information supplied is based on the 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 CellaVision AB assumes no responsibility for the results 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.

Editorial information

This safety data sheet has been generated by the program KemRisk®, KemRisk Sweden AB, Teknikringen 10, SE-583 30 Linköping, Sweden.

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.

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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

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according to Regulation (EC) No. 1907/2006

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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.

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according to Regulation (EC) No. 1907/2006

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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.

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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.

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according to Regulation (EC) No. 1907/2006

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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.

Ecotoxical 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

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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

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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

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