

1.570

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Revision Date: 15/05/2024 Date of Issue: 23/03/2016 Supersedes Date: 01/06/2016 Version: 4.0

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

1.1. Product Identifier

Product Form : Mixture

Product Name : Cargille Refractive Index Liquid Series A $n_D = 1,460 - 1,570$

Product Code : Cat No 18091, 18092, 18095, 1809X, 1809Y, 19091, 19092, 19093, 19094

1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

1.2.1. Relevant Identified Uses

Use of the Substance/Mixture : For professional and R&D use only. Conditions of Intended Use: (ABBR. C.I.U.) As

an Optical Refractive Index Liquid at normal room pressure 101,32 kPa (760 mm Hg), temperature 18°C to 40°C in a non misted/non airborne state in a room having a normal air changes (2)/ HR., in a trained and supervised laboratory/industrial setting using standard Good Laboratory/ Good Manufacturing

procedures.

Note: Product normally sold in 1/4 oz (7,4cc), 1 oz (30cc), 4 oz (120cc), and 16 oz (480cc) quantities. Used in single drop to a few cubic centimeters per application.

See requisitioner for specific quantities involved.

1.2.2. Uses Advised Against

No additional information available

1.3. Details of the Supplier of the Safety Data Sheet

Cargille Laboratories 55 Commerce Road

Cedar Grove, NJ 07009-1289

USA

T 1+ 973-239-6633

Website: www.cargille.com email: Technical@Cargille.com

1.4. Emergency Telephone Number

Emergency Number : VelocityEHS

(800)255-3924 (North America) +1 (813)248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification According to Regulation (EC) No. 1272/2008

Asp. Tox. 1 H304
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of hazard classes, H- and EUH-statements: see section 16

2.2. Label Elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictograms (CLP)





Signal Word (CLP) : Danger

Hazard Statements (CLP) : H304 - May be fatal if swallowed and enters airways.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements (CLP) : P273 - Avoid release to the environment.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

P331 - Do NOT induce vomiting.

P391 - Collect spillage. P405 - Store locked up.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other Hazards

Other Hazards Not Contributing to the Classification

: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

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Co	Component				
	lydrogenated terphenyls 61788-32-7)	This substance meets the vPvB criteria of REACH regulation, annex XIII			

The substance/mixture does not contain substance(s) equal to or greater than 0,1% by weight that are present in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
White mineral oil, petroleum substance with national workplace exposure limit(s) (DE, HU, LV, SI, CH)	(CAS-No.) 8042-47-5 (EC-No.) 232-455-8;265-148-2	30 – 60	Asp. Tox. 1, H304
Hydrogenated terphenyls substance listed as REACH Candidate (Terphenyl, hydrogenated) substance with national workplace exposure limit(s) (AT, BE, BG, CY, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH); substance with a Community workplace exposure limit; vPvB substance	(CAS-No.) 61788-32-7 (EC-No.) 262-967-7	30 – 60	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Terphenyls substance with national workplace exposure limit(s) (AT, BE, DK, ES, FI, FR, GB, GR, HR, IE, PT, NO, CH)	(CAS-No.) 26140-60-3 (EC-No.) 247-477-3	1-5	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Full text of H- and EUH-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-Aid Measures General : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

First-Aid Measures After Inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain

medical attention if breathing difficulty persists.

First-Aid Measures After Skin Contact : Remove contaminated clothing. Drench affected area with water for at least 5

minutes. Obtain medical attention if irritation develops or persists.

First-Aid Measures After Eye Contact : Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Obtain medical attention if irritation $% \left(1\right) =\left(1\right) \left(1\right)$

develops or persists.

First-Aid Measures After Ingestion : Rinse mouth. Do NOT induce vomiting. Place affected person on their side.

Immediately call a POISON CENTER or doctor/physician. If vomiting occurs have

person lean forward. If vomiting occurs, keep head below waistline.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects : May be fatal if swallowed and enters airways.

Symptoms/Effects After Inhalation : Prolonged exposure may cause irritation.

Symptoms/Effects After Skin Contact : Prolonged exposure may cause skin irritation.

Symptoms/Effects After Eye Contact: May cause slight irritation to eyes.

Symptoms/Effects After Ingestion : Aspiration into the lungs can occur during ingestion or vomiting and may cause lung

injury.

Chronic Symptoms : None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media : Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical. : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard : Not considered flammable but may burn at high temperatures.

Explosion Hazard : Product is not explosive.

Reactivity : Hazardous reactions will not occur under normal conditions.

Hazardous Combustion Products : Carbon oxides (CO, CO₂).

5.3. Advice for Firefighters

Precautionary Measures Fire : Exercise caution when fighting any chemical fire. **Firefighting Instructions** : Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory

protection.

Other Information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures : Spilled product presents a slipping hazard. Avoid prolonged contact with eyes, skin

and clothing. Avoid breathing (vapour, mist, spray).

6.1.1. For Non-Emergency Personnel

Protective Equipment : Use appropriate personal protective equipment (PPE).

Emergency Procedures : Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment : Equip cleanup crew with proper protection.

Emergency Procedures : Upon arrival at the scene, a first responder is expected to recognise the presence

of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment : Contain any spills with dikes or absorbents to prevent migration and entry into

sewers or streams.

Methods for Cleaning Up : Clean up spills immediately and dispose of waste safely. Absorb and/or contain

spill with inert material. Transfer spilled material to a suitable container for

disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed : Sp

: Spilled material may present a slipping hazard.

Precautions for Safe Handling : Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work. Avoid prolonged contact with eyes,

skin and clothing. Avoid breathing (vapour, mist, spray).

Hygiene Measures : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures : Comply with applicable regulations.

Storage Conditions : Store in accordance with applicable national storage class systems. Keep container

closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store

locked up/in a secure area.

Incompatible Materials : Strong acids, strong bases, strong oxidisers.

7.3. Specific End Use(s)

For professional and R&D use only. Conditions of Intended Use: (ABBR. C.I.U.) As an Optical Refractive Index Liquid at normal room pressure 101,32 kPa (760 mm Hg), temperature 18°C to 40°C in a non misted/non airborne state in a room having a normal air changes (2)/ HR., in a trained and supervised laboratory/ industrial setting using standard Good Laboratory/ Good Manufacturing procedures.

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Note: Product normally sold in 1/4 oz (7,4cc), 1 oz (30cc), 4 oz (120cc), and 16 oz (480cc) quantities. Used in single drop to a few cubic centimeters per application. See requisitioner for specific quantities involved.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

Please see section 16 for the legal basis of limit value information in section 8.1, including the national legislation or provision which gives rise to a given limit.

which gives rise to						
	White mineral oil, petroleum (8042-47-5)					
Germany	OEL TWA (Legal Basis:TRGS 900)	5 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-respirable fraction)				
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	5 mg/m³				
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	5 mg/m³ (mist)				
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	5 mg/m³				
Slovenia	OEL TWA (Legal Basis:No. 79/19)	5 mg/m³ (respirable fraction)				
Slovenia	OEL STEL (Legal Basis:No. 79/19)	20 mg/m³ (respirable fraction)				
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	5 mg/m³ (inhalable dust)				
Hydrogenated terphe	nyls (61788-32-7)					
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	19 mg/m³				
EU	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	2 ppm				
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	48 mg/m³				
EU	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	5 ppm				
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	19 mg/m³ (all isomers)				
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	2 ppm (all isomers)				
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	48 mg/m³ (all isomers)				
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	5 ppm (all isomers)				
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	5 mg/m³				
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	0,5 ppm				
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	48 mg/m³				
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	5 ppm				
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	19 mg/m³				
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	2 ppm				
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	48 mg/m³				
Bulgaria	OEL STEL (Legal Basis:Reg. No. 13/10)	5 ppm				
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	19 mg/m³				
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	2 ppm				
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	48 mg/m³				
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	5 ppm				
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	19 mg/m³				
Cyprus	OEL TWA (Legal Basis:KDP 16/2019)	2 ppm				
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	48 mg/m³				
Cyprus	OEL STEL (Legal Basis:KDP 16/2019)	5 ppm				
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	4,4 mg/m³				
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	0,4 ppm				
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	48 mg/m³				
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	5 ppm				
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	19 mg/m³				
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	2 ppm				
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	48 mg/m³				
Estonia	OEL STEL (Legal Basis:Regulation No. 105)	5 ppm				
Estonia	OEL Chemical Category (Legal Basis:Regulation No. 105)	Skin notation				
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	10 mg/m ³				
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	30 mg/m ³				
France	OEL STEL (Legal Basis:INRS ED 984)	48 mg/m³ (indicative limit)				
France	OEL STEL (Legal Basis:INRS ED 984)	5 ppm (indicative limit)				
France	OEL TWA (Legal Basis:INRS ED 984)	19 mg/m³				
France	OEL TWA (Legal Basis:INRS ED 984)	2 ppm				
Germany	OEL TWA (Legal Basis:TRGS 900)	19 mg/m³ (inhalable fraction)				
Germany	OEL TWA (Legal Basis:TRGS 900)	2 ppm				

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Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	19 mg/m³
Gibraltar	OEL TWA (Legal Basis:LN. 2018/181)	2 ppm
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	48 mg/m ³
Gibraltar	OEL STEL (Legal Basis:LN. 2018/181)	5 ppm
Greece	OEL TWA (Legal Basis:PWHSE)	19 mg/m ³
Greece	OEL TWA (Legal Basis:PWHSE)	2 ppm
Greece	OEL STEL (Legal Basis:PWHSE)	48 mg/m³
Greece	OEL STEL (Legal Basis:PWHSE)	5 ppm
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	19 mg/m³
Hungary	OEL STEL (Legal Basis:Decree No. 05/2020)	48 mg/m³
Ireland	OEL TWA (Legal Basis:2020 COP)	19 mg/m³
Ireland	OEL TWA (Legal Basis:2020 COP)	2 ppm
Ireland	OEL STEL (Legal Basis:2020 COP)	48 mg/m³
Ireland	OEL STEL (Legal Basis:2020 COP)	5 ppm
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	0,5 ppm (nonirradiated)
Italy	OEL TWA (Legal Basis:Decree 81)	19 mg/m³
Italy	OEL TWA (Legal Basis:Decree 81)	2 ppm
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	19 mg/m³
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	2 ppm
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	19 mg/m³
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	2 ppm
Lithuania	OEL STEL (Legal Basis:HN 23:2011)	48 mg/m³
Lithuania	OEL STEL (Legal Basis:A-N 684)	5 ppm
Luxembourg	OEL TWA (Legal Basis:A-N 684)	19 mg/m³
Luxembourg	OEL TWA (Legal Basis:A-N 684)	2 ppm
Luxembourg	OEL STEL (Legal Basis:A-N 684)	48 mg/m³
Luxembourg	OEL STEL (Legal Basis:A-N 684)	5 ppm
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	19 mg/m³
Malta	OEL TWA (Legal Basis: MOHSAA Ch. 424)	2 ppm
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	48 mg/m³
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	5 ppm
Netherlands	OEL TWA (Legal Basis:OWCRLV)	19 mg/m³
Netherlands	OEL TWA (Legal Basis:OWCRLV)	2 ppm
Netherlands	OEL STEL (Legal Basis:OWCRLV)	48 mg/m³
Netherlands	OEL STEL (Legal Basis:OWCRLV)	5 ppm
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	19 mg/m³
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	2 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	48 mg/m³ (value from the regulation)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	5 ppm (value from the regulation)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	12,5 mg/m ³
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	48 mg/m³
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	19 mg/m³ (indicative limit value)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	2 ppm (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	48 mg/m³ (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	5 ppm (indicative limit value)
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	19 mg/m³ (for gaseous or vapor phase chemicals, the limit value is expressed at 20°C and 101.3 kPa)
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	2 ppm
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	48 mg/m³ (for gaseous or vapor phase chemicals, the limit value is
	,	expressed at 20°C and 101.3 kPa)
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	5 ppm
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	10 mg/m ³
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	2 ppm
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	48 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	19 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	2 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	48 mg/m ³
Slovenia	OEL STEL (Legal Basis:No. 79/19)	5 ppm

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Spain	OEL TWA (Legal Basis:OELCAIS)	20 mg/m ³
Spain	OEL TWA (Legal Basis:OELCAIS)	2 ppm
Spain	OEL STEL (Legal Basis:OELCAIS)	50 mg/m ³
Spain	OEL STEL (Legal Basis:OELCAIS)	5 ppm
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	19 mg/m³
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	2 ppm
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	48 mg/m³
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	5 ppm
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	48 mg/m³ (all isomers)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	5 ppm (all isomers)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	19 mg/m³ (all isomers)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	2 ppm (all isomers)
Terphenyls (26140-60-3	3)	
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	4,5 mg/m³ (all isomers)
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	0,5 ppm (all isomers)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	4,5 mg/m³ (all isomers)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	0,5 ppm (all isomers)
Austria	OEL Ceiling (Legal Basis:BGBl. II Nr. 254/2018)	4,5 mg/m ³
Austria	OEL Ceiling (Legal Basis:BGBl. II Nr. 254/2018)	0,5 ppm
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	5 mg/m³
Belgium	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	0,53 ppm
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	4,8 mg/m³
Croatia	OEL STEL (Legal Basis:OG No. 91/2018)	0,5 ppm
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	5 mg/m³ (Terphenyls)
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	0,5 ppm (Terphenyls)
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	10 mg/m³ (Terphenyls)
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	1 ppm (Terphenyls)
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	10 mg/m³
Finland	OEL STEL (Legal Basis:HTP-ARVOT 2020)	30 mg/m ³
France	OEL STEL (Legal Basis:INRS ED 984)	5 mg/m³
France	OEL STEL (Legal Basis:INRS ED 984)	0,5 ppm
Greece	OEL TWA (Legal Basis:PWHSE)	5 mg/m ³
Greece	OEL TWA (Legal Basis:PWHSE)	0,5 ppm
Greece	OEL STEL (Legal Basis:PWHSE)	5 mg/m³
Greece	OEL STEL (Legal Basis:PWHSE)	0,5 ppm
Ireland	OEL STEL (Legal Basis:2020 COP)	5 mg/m³ (inhalable fraction and vapour)
Ireland	OEL STEL (Legal Basis:2020 COP)	0,5 ppm
USA ACGIH	OEL Ceiling (Legal Basis:IMDFN1)	5 mg/m ³
Norway	OEL Ceiling (Legal Basis:FOR-2020-04-06-695)	4,5 mg/m ³
Norway	OEL Ceiling (Legal Basis:FOR-2020-04-06-695)	0,5 ppm
Portugal	OEL Ceiling (Legal Basis:Portuguese Norm NP 1796:2014)	5 mg/m ³
Spain	OEL STEL (Legal Basis:OELCAIS)	5 mg/m³
Spain	OEL STEL (Legal Basis:OELCAIS)	0,52 ppm
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	5 mg/m ³
	OEL TWA (Legal Basis:OLVSNAIF)	0,5 ppm

8.2. Exposure Controls Appropriate Engineering Controls

Personal Protective Equipment

- : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Personal protective equipment should be chosen in accordance with Regulation (EU) 2016/425, CEN standards, and in discussion with the supplier of the protective equipment.









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Materials for Protective Clothing : Chemically resistant materials and fabrics.

Hand Protection : Wear protective gloves. **Eye Protection** : Chemical safety goggles.

Skin and Body Protection : Wear suitable protective clothing.

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory

protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information : When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: LiquidColour, Appearance: Light Yellow

Odour : Slight Characteristic Odour

Odour Threshold: No data availablepH: No data availableEvaporation Rate: < 1 (Mineral oil =1)</th>

Melting Point : < 0 °C

Freezing Point : No data available

Boiling Point : $> 230 \, ^{\circ}\text{C}$

Flash Point : > 120 °C (Open Cup)
Auto-Ignition Temperature : No data available
Decomposition Temperature : No data available
Flammability : Not applicable

Vapour Pressure : 66,66 pascals (0,5 mm Hg)

Relative Vapour Density At 20°C: ca1 (air = 1)Relative Density: 0,92 (water = 1)Solubility: No data availablePartition Coefficient n-Octanol/Water: No data availableViscosity: 39 cSt @ 25 °C

Explosive Properties : Product is not explosive.

Oxidising Properties : No data available Explosive Limits : No data available Particle Aspect Ratio : Not applicable Particle Aggregation State : Not applicable Particle Agglomeration State : Not applicable Particle Specific Surface Area : Not applicable Particle Dustiness : Not applicable

9.2. Other Information No additional information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials

Strong acids, strong bases, strong oxidisers.

10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Hazard Classes As Defined In Regulation (EC) No 1272/2008

Likely Routes of Exposure : Dermal, Eye Contact, Inhalation, Oral

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: Not classified. (Based on available data, the classification criteria are not met) Acute Toxicity (Oral) **Acute Toxicity (Dermal)** : Not classified. (Based on available data, the classification criteria are not met) **Acute Toxicity (Inhalation)** : Not classified. (Based on available data, the classification criteria are not met)

White mineral oil, petroleum (8042-47-5)	hite mineral oil, petroleum (8042-47-5)		
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)		
Hydrogenated terphenyls (61788-32-7)			
LD50 Oral Rat > 10000 mg/kg (Source: EPA_HPV)			
LD50 Dermal Rabbit	> 2000 mg/kg (Source: ECHA_API)		
LC50 Inhalation Rat	> 4,7 mg/l/4h		
Terphenyls (26140-60-3)			
LD50 Oral Rat	> 5000 mg/kg (Source: EPA_HPV)		
LD50 Dermal Rabbit	> 5000 mg/kg (Source: ECHA_API)		
LC50 Inhalation Rat > 3,8 mg/l/4h			

Skin Corrosion/Irritation : Not classified. (Based on available data, the classification criteria are not met) Eye Damage/Irritation Not classified. (Based on available data, the classification criteria are not met) **Respiratory or Skin Sensitisation** : Not classified. (Based on available data, the classification criteria are not met) **Germ Cell Mutagenicity** : Not classified. (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified. (Based on available data, the classification criteria are not met) **Reproductive Toxicity** : Not classified. (Based on available data, the classification criteria are not met) : Not classified. (Based on available data, the classification criteria are not met) **Specific Target Organ Toxicity (Single** Exposure)

Exposure)

Specific Target Organ Toxicity (Repeated: Not classified. (Based on available data, the classification criteria are not met)

Aspiration Hazard : May be fatal if swallowed and enters airways. Symptoms/Injuries After Inhalation : Prolonged exposure may cause irritation. Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation.

Symptoms/Injuries After Eye Contact

: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion

: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung

injury.

: None known. **Chronic Symptoms**

11.2. Information On Other Hazards

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to humans as it does not meet the criteria set out in section A of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Hazardous To The Aquatic Environment, : Very toxic to aquatic life.

Short-Term (Acute)

Hazardous To The Aquatic Environment, : Very toxic to aquatic life with long lasting effects.

Long-Term (Chronic)

Military and all maturals are (0042, 47.5)	100 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1				
White mineral oil, petroleum (8042-47-5)					
LC50 - Fish [1]	> 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)				
Hydrogenated terphenyls (61788-32-7)					
LC50 - Fish [1]	> 0,53 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)				
EC50 - Crustacea [1]	> 1,34 mg/l				
LC50 - Fish [2]	> 0,53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)				
Terphenyls (26140-60-3)					
LC50 - Fish [1]	> 0,11 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])				
EC50 - Crustacea [1]	0,04 mg/l (Exposure time: 48 h - Species: Daphnia magna) Data Specific to o-Terphenyl.				
LC50 - Fish [2]	> 0,11 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])				
EC50 - Crustacea [2]	0,02 mg/l (Exposure time: 48 h - Species: Daphnia magna) Data Specific to m-Terphenyl.				
NOEC chronic fish	0,04 mg/l (Duration: 34 d - Species: Pimephales promelas)				

12.2. **Persistence and Degradability**

Cargille Refractive Index Liquid Series A n _D = 1,460 - 1,570		
Persistence and Degradability	May cause long-term adverse effects in the environment.	

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12.3. Bioaccumulative Potential

Cargille Refractive Index Liquid Series A n _D = 1,460 - 1,570		
Bioaccumulative Potential	Not established.	
White mineral oil, petroleum (8042-47-5)		
Partition coefficient n-octanol/water (Log Pow)	>6	

12.4. Mobility in Soil

No additional information available

12.5. Results of PBT and vPvB Assessment

Component				
Hydrogenated terphenyls (61788-32-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII			
	This substance meets the vPvB criteria of REACH regulation, annex XIII			

12.6. Endocrine Disrupting Properties

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

12.7. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Product/Packaging Disposal : Dispose of contents/container in accordance with local, regional, national,

Recommendations territorial, provincial, and international regulations.

Additional Information : Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials : Avoid release to the environment. This material is hazardous to the aquatic

environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID				
14.1. UN Number o	14.1. UN Number or ID Number							
UN 3082								
14.2. UN Proper Shi	pping Name							
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS TERPHENYLS)								
14.3. Transport Haz	ard Class(es)		<u> </u>	1				
9	9	9	9	9				
9				3				
14.4. Packing Group	14.4. Packing Group							
III	HI	III	III	III				

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ADR	IMDG	IATA	ADN	RID	
14.5. Environmental Hazards					
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	
environment : Yes	environment : Yes	environment : Yes	environment : Yes	environment : Yes	
Not regulated when	Marine pollutant : Yes	Not regulated when	Not regulated when	Not regulated when	
carried in single or	Not regulated when	carried in single or	carried in single or	carried in single or	
combination	packaged in single or	combination packaging	combination	combination	
packagings containing	combination	containing a net	packagings containing	packagings containing	
a net quantity per	packagings containing	quantity of 5 L or less.	a net quantity per	a net quantity per	
single or inner	a net quantity per	(see special provision	single or inner	single or inner	
packaging of 5 L or	single or inner	A197)	packaging of 5 L or	packaging of 5 L or	
less. (See special	packaging of 5 L or		less. (See special	less. (See special	
provision 375)	less. (See 2.10.2.7)		provision 375)	provision 375)	

14.6. Special Precautions For User

No additional information available

14.7. Maritime Transport in Bulk According to IMO instruments

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

15.1.1. EU-Regulations

15.1.1.1. REACH Annex XVII Information

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:			
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Cargille Refractive Index Liquid Series A n_D = 1,460 - 1,570 ; White mineral oil, petroleum		
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Cargille Refractive Index Liquid Series A n_D = 1,460 - 1,570 ; Hydrogenated terphenyls ; Terphenyls		

15.1.1.2. REACH Candidate List Information

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Terphenyl, hydrogenated (EC 262-967-7, CAS 61788-32-7)

15.1.1.3. POP (2019/1021) - Persistent Organic Pollutants Information

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

15.1.1.4. PIC Regulation EU (649/2012) - Export and Import of Hazardous Chemicals Information

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

15.1.1.5. REACH Annex XIV Information

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

15.1.1.6. Substances Depleting the Ozone layer (1005/2009) Information

No additional information available

15.1.1.7. EC Inventory Information

15.1.1.7. EC Inventory Information		
White mineral oil, petroleum (8042-47-5)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Hydrogenated terphenyls (61788-32-7)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Polyphenyls, quater- and higher, partially hydrogenated (68956-74-1)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		
Terphenyls (26140-60-3)		
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)		

15.1.1.8. Other Information

No additional information available

15.1.2. National Regulations

No additional information available

15.1.3. International Inventory Lists

White mineral oil, petroleum (8042-47-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List)

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Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

Hydrogenated terphenyls (61788-32-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

Polyphenyls, quater- and higher, partially hydrogenated (68956-74-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Terphenyls (26140-60-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemical Inventory)

Listed on Thailand Existing Chemicals Inventory (DIW)

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

SECTION 16: OTHER INFORMATION

Date of Preparation or Latest Revision

: 15/05/2024

Data Sources

: Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other Information

: According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full Text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Asp. Tox. 1 Aspiration hazard, Category 1		
H304	May be fatal if swallowed and enters airways.	
H400	Very toxic to aquatic life	

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Н	H410	Very toxic to aquatic life with long lasting effects.
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Classification and Procedure Used to Derive the Classification for Mixtures According to Regulation (EC) 1272/2008 [CLP]:

Asp. Tox. 1	Expert judgement
Aquatic Acute 1	Calculation method
Aquatic Chronic 1	Calculation method

Indication of Changes

Section	Change	Date Changed	Version
4,5,6,7	Language modified	15/05/2024	4.0
9	Review of data	15/05/2024	4.0

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists ADN - European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ATF - Acute Toxicity Estimate **BCF** - Bioconcentration Factor BEI - Biological Exposure Indices (BEI) BOD - Biochemical Oxygen Demand CAS No. - Chemical Abstracts Service Number

CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008

COD - Chemical Oxygen Demand EC - European Community

EC50 - Median Effective Concentration EEC - European Economic Community

EINECS – European Inventory of Existing Commercial Chemical Substances

EmS-No. (Fire) - IMDG Emergency Schedule Fire EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

EU – European Union

ErC50 - EC50 in Terms of Reduction Growth Rate

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC Code - International Bulk Chemical Code IMDG - International Maritime Dangerous Goods

IPRV - Ilgalaikio Poveikio Ribinis Dydis

IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median Lethal Concentration LD50 - Median Lethal Dose

LOAFL - Lowest Observed Adverse Effect Level LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water

MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyzsze Dopuszczalne Stezenie

NDSCh - Naiwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe NOAEL - No-Observed Adverse Effect Level

NRD - Nevirsytinas Ribinis Dydis NTP - National Toxicology Program **OEL - Occupational Exposure Limits** PBT - Persistent, Bioaccumulative and Toxic

NOEC - No-Observed Effect Concentration

PEL - Permissible Exposure Limit

pH - Potential Hydrogen REACH - Registration, Evaluation, Authorisation, and Restriction of Chemicals

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet STEL - Short Term Exposure Limit STOT - Specific Target Organ Toxicity

TA-Luft - Technische Anleitung zur Reinhaltung der Luft

TEL TRK - Technical Guidance Concentrations

ThOD - Theoretical Oxygen Demand TLM - Median Tolerance Limit

TLV - Threshold Limit Value

TPRD - Trumpalaikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von

Gefahrstoffen in ortsbeweglichen Behältern

TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine

TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte

TSCA - Toxic Substances Control Act TWA - Time Weighted Average VOC - Volatile Organic Compounds

VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

VLA-ED - Valor Límite Ambiental Exposición Diaria

VLE - Valeur Limite D'exposition

VME - Valeur Limite De Moyenne Exposition vPvB - Very Persistent and Very Bioaccumulative

WEL - Workplace Exposure Limit WGK - Wassergefährdungsklasse

Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)

AU WES: Australia WES

CHEMVIEW: ChemView (U.S. Environmental Protection Agency) FC. RAR: Furonean Commission Renewal Assessment Report EC SCOEL: European Commission Scientific Committee on Occupational

Exposure Limits

ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals

Reports

ECHA_API: European Chemicals Agency API ECHA_RAC: ECHA Committee for Risk Assessment

EFSA: European Food Safety Authority EPA: U.S. Environmental Protection Agency

EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection

EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency) EPA_HPV: High Production Volume Chemicals (U.S. Environmental

FOOD JOURN: Food Research Journal (1956) IARC: The International Agency for Research on Cancer

IDLH: National Institute for Occupational Health and Safety Immediately

Dangerous to Life or Health Value Profiles

IUCLID: International Uniform Chemical Information Database

JAPAN GHS: Japan GHS Basis for Classification Data

JP J-CHECK: Japan J-Check

KR_NIER: South Korea National Institute of Environmental Research

Evaluations

NICNAS: Australia National Industrial Chemicals Notification and Assessment

Scheme

NIOSH: National Institute for Occupational Health and Safety (U.S.

Department of Health and Human Services)

NLM_CIP: National Library of Medicine ChemID plus database

NLM HSDB: National Library of Medicine Hazardous Substance Data Bank

NLM_PUBMED: National Library of Medicine PubMed database

NTP: National Toxicology Program

NZ_CCID: New Zealand Chemical Classification and Information Database

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Protection Agency)

EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)

EU_CLH: European Union Harmonised Classification and Labelling Proposal

EU_RAR: European Union Risk Assessment Report

OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)

OECD_SIDS: Screening Information Data Sets (Organisation for Economic Cooperation and Development)

WHO: World Health Organization

Limit Value Legal Basis*

*Includes the below and any related regulations/provisions, and subsequent amendements

EU - 2019/1831 EU in accor. with 98/24/EC - Directive 2019/1831/EU of October 24, 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 2000/39/EC.

EU - 2019/1243/EU, and 98/24/EC) - Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work and amendment Regulation (EU) 2019/1243.

Austria - BGBI. II Nr. 254/2018 - Ordinance on Limit Values for Workplace Substances and on Carcinogens from the Federal Ministry of Economics and Labour, Published in 2003, Appendix 1: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBL. II) No 119/2004) & BGBI. II No. 242/2006, BGBI. II No. 243/2007, lastly changed through BGBI. I Nr. 51/2011), BGBI. II Nr. 186/2015, BGBI. II Nr. 288/2017 amended by BGBI. II Nr. 254/2018.

Austria - BLV BGBI. II Nr. 254/2018 - Ordinance on health monitoring at the workplace 2008, published through BGBI. II Nr. 224/2007 by Austria Minister for Labor and Social Affairs, Lastly changed through BGBI. II Nr. 254/2018

Belgium - Royal Decree 21/01/2020 - Royal decree amending title 1 relating to chemical agents in Book VI of the code of well-being at work, with regard to the list of limit values of exposure to chemical agents and title 2 relating to carcinogens, mutagens and reprotoxics of Book VI of the code of well-being at work (1)

Regulation No. 13 of December 30, 2003 on the Protection of Workers from

Bulgaria - Reg. No. 13/10 -

Hazards Related to Exposure to Chemical Agents at Work Labor Code, Annex No.1 Limit values of chemical agents in the air of the working environment, and Annex № 2 Biological limit values of chemical agents and their metabolites (bio markers of exposure) or bio markers of effect Amended by: 71/2006, 67/2007, 2/2012, 46/2015, 73/2018, 5/2020), and Regulation No.10 of September 26, 2003 on the Protection of Workers from the Risks Associated with Exposure to Carcinogens and Mutagens at Work Annex No.1 Occupational Exposure Limits, Amended by: 8/2004, 46/2015, 5/2020 Croatia - OG No. 91/2018 - Regulation on the Protection of Workers from Exposure to Hazardous Chemicals at Work, the Limit Values of Exposure and the Biological Limit Values. Official Gazette No. 91 of October 12, 2018 Cyprus - KDP 16/2019 - Government of Cyprus Cabinet of Ministers Regulation 268/2001 - Safety and Health in the Working Environment (Chemical Substances) Article 38, As amended by Regulation 16/2019 and Cabinet of Ministers Regulation 153/2001 - Safety and Health in the Working Environment (Chemical Substances-Carcinogens), as amended by Regulation 493/2004 - Safety and Health in the Working Environment (Chemical Substances - Carcinogens) AND Law 47(I) 2000 - Occupational Health and Safety (Asbestos), as amended by Decree 316/2006.

Czech Republic - Reg. 41/2020 - Regulation 41/2020 amending Regulation 361/2007 of Coll. establishing Occupation Exposure Limits as amended Czech Republic - Decree No. 107/2013 - Decree No. 107/2013 Coll., amending Decree No. 432/2003 Coll., laying down the conditions for the application of the work into categories, limit values for the parameters of biological exposure tests, collection of biological material conditions for the implementation of biological exposure tests and requirements for reporting work with asbestos and biological agents

Denmark - BEK No. 698 of 28/05/2020 - Order on Limit Values for Substances and Materials, The Statutory Order No. 507 of May 17, 2011, Appendix 1 - Limits for air pollution, etc. and Appendix 3 - Biological Exposure Values, Amended by: No. 986 of October 11, 2012, No. 655 of May 31, 2018, No. 1458 December 13, 2019, No. 698 of May 28, 2020

Estonia - Regulation No. 105 - Health and Safety Requirements for the Use of Dangerous Chemicals and Materials Containing Them and Occupational Exposure Limits to Chemical Agents

Government of the Republic, Regulation No. 105 of 20 March 2001, Amended 17 October 2019, and 17 January, 2020.

Finland - HTP-ARVOT 2020 - Concentrations Known to be Hazardous, 654/2020 OEL values 2020 Publications of Ministry of Social Affairs and

Greece - PWHSE - Occupational Exposure Limits - Protection of workers' health and safety from exposure to certain chemical substances during the workday, (latest amendment 82/2018) and Occupation Exposure Limits - Protection of workers' health and safety from exposure to certain carcinogenic and mutagenic chemical substances (latest amendment 26/2020), and Presidential Decree 212/2006 - Protection of workers that are exposed to asbestos.

Hungary - Decree 05/2020 - 5/2020. (II. 6.) ITM decree on the protection of the health and safety of workers from the risks related to chemical agents **Ireland - 2020 COP** - 2020 Code of Practice for the Chemical Agents Regulations, Schedule 1

Italy - Decree 81 - Title IX, Annex XLIII and XXXVIII, Professional Exposure Limits and Annex XXXIX Mandatory Biological Limit Values and Health Monitoring, Article 1, Law 123 of August 3, 2007, Legislative Decree 81 of April 9, 2008, Last amended: January 2020

Italy - IMDFN1 - Ministerial Decree of August 20, 1999 Final Note (1)
Latvia - Reg. No. 325 - Cabinet of Ministers Regulation No. 325 - Labour
Protection Requirements when Coming in Contact with Chemical Substances
at Workplaces, Amended by Cabinet of Ministers Regulation No. 92, 163, 407
and No. 11.

Lithuania - HN 23:2011 - Lithuanian Hygiene Standard HN 23:2011 Occupational Exposure Limit Values, Amended by Order V-695/A1-272. **Luxembourg - A-N 684** - Grand-Ducal Regulation of 20 July 2018 amending the Grand-Ducal Regulation of 14 November 2016 concerning the protection of the safety and health of employees against the risks associated with chemical agents in the workplace. Official journal of the Grand-Duke of Luxembourg, A-N°684 of 2018

Malta - MOSHAA Ch. 424 - Malta Occupational Health and Safety Authority Act: Chapter 424 as amended by: Legal Notice 353, 53, 198, and 57.

Netherlands- OWCRLV - Occupational Working Conditions Regulation, Limit Values for substances harmful to health, Annex XVIII, Updated from August 1, 2020.

Norway - FOR-2020-04-060695 - Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents, FOR-2011-12-06-1358, Updated by: FOR-2020-04-06-695, FOR-2020-03-23-402, FOR-2018-12-20-2186, FOR-2018-08-21-1255, FOR-2017-12-20-2353.

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