

Safety Data Sheet

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

Date of Issue: 12/04/2022 Version: 1.0

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

### 1.1. Product Identifier

Product Form: MixtureProduct Name: 49% RH

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 : Humidity Control

**1.2.2.** Uses Advised Against No additional information available

1.3. Details of the Supplier of the Safety Data Sheet

**Company** 

Boveda Inc.

10237 Yellow Circle Drive Minnetonka, MN 55343 USA

+1 952-745-2900

info@bovedainc.com

1.4. Emergency Telephone Number

**Emergency Number** : ChemTel LLC

(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

Not classified

## 2.2. Label Elements

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

No labelling applicable

2.3. Other Hazards

**Other Hazards Not Contributing to the** : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Classification

This substance/mixture does not meet the PBT/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
1,2,3-Propanetriol	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	17,4	Not classified

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.

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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

develops or persists.

First-Aid Measures After Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Effects** : Not expected to present a significant hazard under anticipated conditions of

normal use.

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 : Ingestion may cause adverse effects.

**Chronic Symptoms** : None expected under normal conditions of use.

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.

## **SECTION 5: FIREFIGHTING MEASURES**

5.1. Extinguishing Media

Suitable Extinguishing Media : Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media : None known.

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** : Chlorine. Magnesium oxide fumes. Carbon oxides (CO, CO<sub>2</sub>).

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 : decomposes: release of toxic and corrosive gases/vapours (hydrogen chloride).

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, 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.

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. Soak up spills with inert

solids, such as clay or diatomaceous earth as soon as possible. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a

spill.

Other Information : Dispose of materials or solid residues at an authorised site.

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 : Do not ingest.

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**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 vapors, 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.

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

7.3. Specific End Use(S)

**Humidity Control** 

# **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.

1,2,3-Propanetriol (	56-81-5)	
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m³ (mist)
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	10 mg/m³
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	10 mg/m³
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	10 mg/m³
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	20 mg/m³
France	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m³ (aerosol)
Germany	OEL TWA (Legal Basis:TRGS 900)	200 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Greece	OEL TWA (Legal Basis:PWHSE)	10 mg/m³
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m³ (inhalable fraction)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m³ (mist)
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	11 mg/m³
Slovenia	OEL TWA (Legal Basis:No. 79/19)	200 mg/m³ (inhalable fraction)
Slovenia	OEL STEL (Legal Basis:No. 79/19)	400 mg/m³ (inhalable fraction)
Spain	OEL TWA (Legal Basis:OELCAIS)	10 mg/m³ (mist)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	100 mg/m³ (inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	50 mg/m³ (inhalable dust)

### 8.2. Exposure Controls

**Appropriate Engineering Controls** : 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.

Personal Protective Equipment : Gloves. Safety glasses. 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.





**Materials for Protective Clothing** 

**Hand Protection** 

Eye Protection
Skin and Body Protection

Skin and Body Protection Respiratory Protection

: Chemically resistant materials and fabrics.

: Wear protective gloves.

: Chemical safety goggles or safety glasses with side shields.

: Wear suitable protective clothing.

: 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.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1. **Information on Basic Physical and Chemical Properties**

**Physical State** : Liquid

Colour, Appearance : Not determined. Colour : Not determined. Odour Not determined **Odour Threshold** No data available

рΗ 6.9 - 8.2

**Evaporation Rate** : No data available **Melting Point** : Not available **Freezing Point** : Not available **Boiling Point** : No data available **Flash Point** No data available **Auto-Ignition Temperature** : Not available **Decomposition Temperature** : No data available Flammability (solid, gas) : Not applicable **Vapour Pressure** : No data available Relative Vapour Density At 20 °C : No data available **Relative Density** : No data available Solubility : partly soluble. Partition Coefficient n-Octanol/Water : No data available No data available Viscosity **Explosive Properties** No data available **Oxidising Properties** : No data available

: Not available **Explosive Limits 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 available

# **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.

#### **Conditions to Avoid** 10.4.

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

#### 10.5. **Incompatible Materials**

Strong acids, strong bases, strong oxidisers.

#### **Hazardous Decomposition Products** 10.6.

Thermal decomposition may produce: Chlorine. Oxides of magnesium. Carbon oxides (CO, CO<sub>2</sub>).

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# Information On Hazard Classes As Defined In Regulation (Ec) No 1272/2008

**Likely Routes of Exposure** 

: 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)

1,2,3-Propanetriol (56-81-5)	
LD50 Oral Rat	12600 mg/kg
LD50 Dermal Rabbit	> 10 g/kg

Skin Corrosion/Irritation : Not classified (Based on available data, the classification criteria are not met) pH: 6,9 - 8,2

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Eye Damage/Irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 6,9 - 8,2

**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)

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

Exposure)

**Aspiration Hazard** : Not classified (Based on available data, the classification criteria are not met)

**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 : Ingestion may cause adverse effects.

**Chronic Symptoms** : None expected under normal conditions of use.

#### 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.

Adverse Health Effects Caused By : No endocrine-disrupting effects are expected in humans or target animals.

**Endocrine Disrupting Properties** 

## **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1. **Toxicity**

Hazardous To The Aquatic Environment, : Not classified (Based on available data, the classification criteria are not met)

Short-Term (Acute)

Hazardous To The Aquatic Environment, : Not classified (Based on available data, the classification criteria are not met)

Long-Term (Chronic)

1,2,3-Propanetriol (56-81-5)	
LC50 - Fish [1]	54000 (51000 – 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

#### 12.2. **Persistence and Degradability**

49% RH	
Persistence and Degradability	Inorganic product which cannot be eliminated from water by biological purification processes.

#### 12.3. **Bioaccumulative Potential**

49% RH	
Bioaccumulative Potential	Not established.
1,2,3-Propanetriol (56-81-5)	
BCF Fish 1	(no bioaccumulation)
Partition coefficient n-octanol/water (Log Pow)	-1,76

#### 12.4. **Mobility in Soil**

49% RH	
Ecology - Soil	Leaches if exposed to water.

#### Results of PBT and vPvB Assessment 12.5.

Does not contain any PBT/vPvB substances >= 0.1% assessed in accordance with REACH Annex XVIII

#### **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.

**Adverse Effects On The Environment** : Endocrine disrupting effects are not expected for the environment.

**Caused By Endocrine Disrupting** 

**Properties** 

#### 12.7. Other Adverse Effects

Other Information Avoid release to the environment.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

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#### 13.1. Waste Treatment Methods

**Regional Legislation (Waste)** : Disposal must be done according to official regulations.

**Waste Treatment Methods** : Can be landfilled or incinerated, when in compliance with local regulations.

**Sewage Disposal Recommendations**: Do not dispose of waste into sewer.

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

**Recommendations** territorial, provincial, and international regulations.

**Additional Information** : Recover or recycle if possible.

Ecology - Waste Materials : Avoid unnecessary release into environment.

## **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

#### 14.1. UN Number or ID Number

Not regulated for transport

### 14.2. UN Proper Shipping Name

Not regulated for transport

## 14.3. Transport Hazard Class(Es)

Not regulated for transport

### 14.4. Packing Group

Not regulated for transport

### 14.5. Environmental Hazards

Not regulated for transport

# 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

Contains no REACH substances with Annex XVII restrictions

### 15.1.1.2. REACH Candidate List Information

Contains no substance on the REACH candidate list

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

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

# 15.1.1.5. REACH Annex XIV Information

Contains no REACH Annex XIV substances

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

No additional information available

# 15.1.1.7. EC Inventory Information

# 1,2,3-Propanetriol (56-81-5)

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

#### 1,2,3-Propanetriol (56-81-5)

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)

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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 Chemicals Inventory)

# 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

# **SECTION 16: OTHER INFORMATION**

**Date of Preparation or Latest Revision** 

: 12/04/2022

**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

### **Indication of Changes**

No additional information available

# **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
ATE - 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

LOAEL - 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 - Najwyzsze Dopuszczalne Stezenie Chwilowe NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe

NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration

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

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

I LIVI - IVIEGIAN TOIERANCE 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

### 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.

**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

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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)

#### Bulgaria - Reg. No. 13/10 -

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

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.

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Gibraltar - LN. 2018/131 - Factories (Control of Chemical Agents at Work)

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**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

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

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Slovakia - Gov. Decree 33/2018 - Government Decree of Slovak Republic 33/2018 on January 17, 2018 amending Government Decree of Slovak Republic 355/2006 about protection of health of employees when working with chemical agents

Slovenia - No. 79/19 - Regulation for protection of workers against risks related to carcinogenic or mutagenic substances exposure. Annex III - Classification and binding levels of carcinogenic or mutagenic substances for occupational exposure. The Official Journal of the Republic of Slovenia, No. 101/2005. Amended by 38/15, 79/19. Regulation for protection of workers against risks related to exposure to chemical substances at the workplace. Republic of Slovenia, No. 100/2001. Annex I - List of Binding Occupational Exposure Limit Values. Amended by 39/05, 53/07, 102/10, 38/15, 78/18, 78/19

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The Swedish Work Environment Authority's Ordinance and General Guidance on Hygienic Limit Values

**Switzerland - OLVSNAIF -** Occupational Limit Values 2020 Swiss National Accident Insurance Fund. List of Biological Limit Values (BAT-Werte) and List of MAK Values.

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## Safety Data Sheet

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

Regulations 2003 LN. 2003/035, amended by LN. 2008/035, LN. 2008/050, LN. 2012/021, LN. 2015/143, LN. 2018/181. EU GHS SDS (2020/878)

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.

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