

Diluent

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

Revision Date: 04/07/2025 | Date of Issue: 12/05/2016 | Version 2.0

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

1.1. Product Identifier

Product FormSubstanceProduct NameDiluentCAS-No.7732-18-5FormulaH2OProduct Reference #145388

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

Lab Reagents.

1.2.2. Uses Advised Against

No additional information available

1.3. Details of the Supplier of the Safety Data Sheet

Company

Asuragen, Inc.

2150 Woodward St. Suite 100

Austin, TX 78744

USA

T: +1 512-681-5200

USA, Toll-free T: +1 877-777-1874

E-mail: support@asuragen.com

Web address: www.asuragen.com

1.4. Emergency Telephone Number

Emergency Number Tel: +1 -512-681-5200 US, Toll-free Tel: 1-877-777-1874

2 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



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2.3. Other Hazards

Other Hazards Not Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Used Contributing to the product may be biologically contaminated. Follow all institutional protocols Classification

concerning the potential release of pathogens.

This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII

The substance/mixture does not contain substance(s) at a concentration 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.

3 **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

3.1. Substances

Name Diluent CAS-No. 7732-18-5

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
Water	(CAS-No.) 7732-18-5	> 99,9	Not classified
	(EC-No.) 231-791-2		

3.2. Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-Aid Measures General First aid measures are not required for this product. If you feel unwell,

> seek medical advice. If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

First-Aid Measures After Inhalation Not required. First-Aid Measures After Skin Contact Not required. First-Aid Measures After Eye Contact Not required.

First-Aid Measures After Ingestion Not required. Call a POISON CENTER/doctor/physician if you feel unwell.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects None expected under normal conditions of use. Symptoms/Effects After Inhalation None expected under normal conditions of use. **Symptoms/Effects After Skin Contact** None expected under normal conditions of use. Symptoms/Effects After Eye Contact None expected under normal conditions of use.

Symptoms/Effects After Ingestion Ingestion is not expected to be harmful.

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

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

Not required.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

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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 flammable.

Product is not explosive. **Explosion Hazard**

Reactivity Product is stable.

Hazardous Combustion Products None.

5.3. Advice for Firefighters

Precautionary Measures Fire Exercise caution when fighting any chemical fire.

Firefighting Instructions Use firefighting measures appropriate for the surrounding fire.

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

protection.

6 **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

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 Equip cleanup crew with proper protection.

Equipment

Upon arrival at the scene, a first responder is expected to recognise the presence of **Emergency**

Procedures 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

No additional information available

6.3. Methods and Materials for Containment and Cleaning Up

For Containment Absorb and/or contain spill with inert material, then place in suitable container.

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

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



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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. If product is biologically contaminated, follow all

institutional protocols concerning the potential release of pathogens.

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. Store in a dry, cool

and well-ventilated place. Keep container closed when not in use.

Incompatible Materials None known.

7.3. Specific End Use(s)

For Research Use Only. Not for Use in Diagnostic Procedures.

8 SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

No additional information available

8.2. Exposure Controls

Appropriate Engineering Not required.

Controls

Personal Protective Equipment Not required for normal conditions of use. 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 Not applicable.

Hand ProtectionNot required for normal conditions of use.Eye ProtectionNot required for normal conditions of use.Skin and Body ProtectionNot required for normal conditions of use.Respiratory ProtectionNot required for normal conditions of use.

9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State Liquid

Colour, Appearance Clear, colourless liquid.

Odour Odourless.

Odour Threshold No data available

pH \sim 7 pH solution 100 %

Evaporation RateNo data available

Melting Point0 °C (32 °F)Freezing PointNo data available

Boiling Point100 °C (212 °F)Flash PointNot applicableAuto-Ignition TemperatureNo data availableDecomposition TemperatureNo data available

FlammabilityNo data availableVapour PressureNo data available



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No data available

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Relative Vapour Density At 20°C
Relative Density

Relative Density 1 (water = 1) **Density** 1 g/ml

Solubility Soluble in water.

Partition Coefficient n-Octanol/Water No data available

No data available

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

9.2. Other Information

No additional information available

10 SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product is stable.

10.2. Chemical Stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

10.4. Conditions to Avoid

Extremely high or low temperatures.

10.5. Incompatible Materials

None known.

10.6. Hazardous Decomposition Products

None known.

11 SECTION 11: TOXICOLOGICAL INFORMATION

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

Likely Routes of Exposure Dermal, Ingestion, Inhalation, Eye contact

Acute Toxicity (Oral) Not classified (Based on available data, the classification criteria are not

met)

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)



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Skin Corrosion/Irritation Not classified (Based on available data, the classification criteria are not

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)

Specific Target Organ Toxicity

(Single Exposure)

Not classified (Based on available data, the classification criteria are not

met)

Specific Target Organ Toxicity

Not classified (Based on available data, the classification criteria are not

met)

(Repeated Exposure) Aspiration Hazard

Not classified (Based on available data, the classification criteria are not

met)

Symptoms/Injuries After Inhalation

Symptoms/Injuries After Skin

Contact

Symptoms/Injuries After Eye

Contact

Symptoms/Injuries After Ingestion

Chronic Symptoms

None expected under normal conditions of use. None expected under normal conditions of use.

None expected under normal conditions of use.

Ingestion is not expected to be harmful.

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.

SECTION 12: ECOLOGICAL INFORMATION 12

12.1. Toxicity

Hazardous To The Aquatic Environment, Short- Not classified (Based on available data, the classification criteria

Term (Acute) are not met)

Hazardous To The Aquatic Environment, Long-Not classified (Based on available data, the classification criteria

Term (Chronic) are not met)

12.2. Persistence and Degradability

Diluent (7732-18-5)	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Diluent (7732-18-5)	
Bioaccumulative Potential	Not established.

12.4. Mobility in Soil



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No additional information available

12.5. Results of PBT and vPvB Assessment

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.

12.7. Other Adverse Effects

Other Information Avoid release to the environment.

13 SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Product/Packaging DisposalDispose of contents/container in accordance with local, regional,Recommendationsnational, territorial, provincial, and international regulations.Additional InformationBiologically contaminated materials should be incinerated.

Ecology - Waste Materials Avoid release to the environment.

14 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



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15 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

Not listed on REACH Annex XVII

15.1.1.2. REACH Candidate List Information

Not listed on the REACH Candidate List

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

Not listed on the POP list (Regulation EU 2019/1021)

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

Not listed on the PIC list (Regulation EU 649/2012)

15.1.1.5. REACH Annex XIV Information

Not 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

Water (7732-18-5)

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

Diluent (7732-18-5)

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)

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 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)



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

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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

16 SECTION 16: OTHER INFORMATION

Date of Preparation or 04/07/2025

Latest Revision

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

Section	Change	Date Changed	Version
2, 3, 4, 5, 6, 7, 9, 11, 12, 13, 14, 15, 16	Language modified	03/01/2024	2.0

Abbreviations and Acronyms

	ACGIH - American Conference of Governmental Industrial Hygienists	NDS - Najwyzsze Dopuszczalne Stezenie		
ADN - European Agreement Concerning the International Carriage of		NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe		
	Dangerous Goods by Inland Waterways	NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe		
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road	NOAEL - No-Observed Adverse Effect Level			
	,	NOEC - No-Observed Effect Concentration		
	ATE - Acute Toxicity Estimate	NRD - Nevirsytinas Ribinis Dydis		
	BCF - Bioconcentration Factor	NTP - National Toxicology Program		
	BEI - Biological Exposure Indices (BEI)	OEL - Occupational Exposure Limits		
	BOD - Biochemical Oxygen Demand	PBT - Persistent, Bioaccumulative and Toxic		
	CAS No Chemical Abstracts Service Number	PEL - Permissible Exposure Limit		
CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008 COD - Chemical Oxygen Demand	pH - Potential Hydrogen			
	REACH - Registration, Evaluation, Authorisation, and Restriction of Chemicals			
EC - European Community				
	EC50 - Median Effective Concentration	RID - Regulations Concerning the International Carriage of Dangerous		
	EEC - European Economic Community	Goods by Rail		
	EINECS - European Inventory of Existing Commercial Chemical Substances	SADT - Self Accelerating Decomposition Temperature		
	EmS-No. (Fire) - IMDG Emergency Schedule Fire	SDS - Safety Data Sheet		
	EmS-No. (Spillage) - IMDG Emergency Schedule Spillage	STEL - Short Term Exposure Limit		
	EU - European Union	STOT - Specific Target Organ Toxicity		
	ErC50 - EC50 in Terms of Reduction Growth Rate	TA-Luft - Technische Anleitung zur Reinhaltung der Luft		

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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

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)

 ${\sf EC_RAR: European\ Commission\ Renewal\ Assessment\ Report}$

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

Protection Agency)

EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

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

Reregistration Eligibility Decision (U.S. Environmental Protection Agency)
EPA_HPV: High Production Volume Chemicals (U.S. Environmental

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

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

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.

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.

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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 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 Health 2020:24 Annexes1, 2 and 3.

France - INRS ED 984 - Occupational Exposure Limit Values to Chemical Agents in France Published 2016 by the INRS National Institute of Research and Safety Health and safety of work, revised, updated by: Decree 2016-344, JORF No 0119, and Decree 2019-1487.

France - Decree 2009-1570 - Decree 2009-1570 of December 15, 2009, relative to the control of chemical risk on workplaces.

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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Germany - TRGS 903 - Biological Threshold Limits (BGW-Values), Technical Rules for Dangerous Substances, latest amendment March, 2020

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Spain - AFS 2018:1 - NATIONAL INSTITUTE FOR HEALTH AND SAFETY AT WORK. Occupational exposure limits for chemical agents in Spain. Tables 1 and 3. Latest edition Feb. 2019

Sweden - AFS 2018:1 - Statute Book of the Swedish Work Environment Authority, AFS 2018:1

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.

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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