

Safety Data Sheet

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

Revision Date: 05/12/2023 Date of Issue: 18/08/2016 Version: 2.0

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

1.1. Product Identifier

Product Form : Mixture

Product Name : Control Enzyme (FAM)

Product Reference #: : 145214

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 T: +1 512-681-5200

USA, Toll-free T: +1 877-777-1874 E-mail: <a href="mailto:support@asuragen.com">support@asuragen.com</a> Web address: <a href="mailto:www.asuragen.com">www.asuragen.com</a>

1.4. Emergency Telephone Number

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

## **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

Classification

: Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Used product may be biologically contaminated. Follow all institutional protocols

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) 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 substance with national workplace exposure limit(s) (BE, CZ, DE, EE, ES, FI, FR, GB, GR, HR, PL, PT, SI, SK, CH)	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	30 – 60	Not classified

## **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). If product is biologically

contaminated, follow all institutional protocols concerning the potential release of

pathogens.

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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

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 : Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

Unsuitable Extinguishing Media : 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 flammable.

**Explosion Hazard** : Product is not explosive.

**Reactivity** : Hazardous reactions will not occur under normal conditions.

**Hazardous Combustion Products** : Carbon oxides (CO, CO<sub>2</sub>). Acrolein.

**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.

# **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 (vapour,

mist, spray). 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 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. 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.

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# **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling** 

: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray). 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. 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)

Lab Reagents

## **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/m <sup>3</sup>
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. Protective clothing. Protective goggles. 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 Respiratory Protection

: Chemically resistant materials and fabrics.

: Wear protective gloves.

: Chemical safety goggles.

: 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

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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** 

Colour, Appearance : Not specified

Odour Mild **Odour Threshold** : No data available рΗ : No data available **Evaporation Rate** : No data available **Melting Point** : No data available **Freezing Point** No data available **Boiling Point** No data available **Flash Point** : No data available **Auto-Ignition Temperature** : No data available **Decomposition Temperature** : No data available **Flammability** Not applicable **Vapour Pressure** No data available Relative Vapour Density At 20°C : No data available **Relative Density** : No data available Solubility : No data available Partition Coefficient n-Octanol/Water No data available Viscosity : No data available **Explosive Properties** : No data available **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 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.

#### 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.

## **Hazardous Decomposition Products**

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Acrolein.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

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

**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)

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

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1,2,3-Propanetriol (56-81-5)			
LC50 Inhalation Rat		> 2,75 mg/l/4h (No mortalities)	
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)	
Specific Target Organ Toxicity (Single	:	Not classified (Based on available data, the classification criteria are not met)	
Exposure)			
Specific Target Organ Toxicity (Repeated Exposure)	:	Not classified (Based on available data, the classification criteria are not met)	
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.

# **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

Control Enzyme (FAM)	
Persistence and Degradability	Not established.

#### 12.3. Bioaccumulative Potential

ontrol Enzyme (FAM)		
Bioaccumulative Potential	Not established.	
1,2,3-Propanetriol (56-81-5)		
BCF Fish 1	(no bioaccumulation)	
Partition coefficient n-octanol/water (Log Pow)	-1,75 at 25 °C (at pH 7.4)	

#### 12.4. Mobility in Soil

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.

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## **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** : Biologically contaminated materials should be incinerated.

**Ecology - Waste Materials** : Avoid release to the 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 substance(s) listed on REACH Annex XVII (Restriction Conditions)

## 15.1.1.2. REACH Candidate List Information

Contains no substance(s) listed on the REACH Candidate List

## 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

## 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)

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)

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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** 

: 05/12/2023

**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

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**Indication of Changes** 

Section	Change	Date Changed	Version
1, 2, 3, 4, 5, 6, 7, 9, 10, 13, 14, 15, 16	Language modified	05/12/2023	2.0
8, 11, 12	Data modified ; Language modified	05/12/2023	2.0

#### **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
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

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

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

IDLH: National Institute for Occupational Health and Safety Immediately

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CHEMVIEW: ChemView (U.S. Environmental Protection Agency) 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\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection

Agency)

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 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

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.

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.

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

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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 quaranteeing any specific property of the product.

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