

Safety Data Sheet

Acc. to 2019 No. 758 - REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 and subsequent amendments Revision Date: 03/09/2024 Date of Issue: 05/08/2024 Version: 2.0

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

1.1. Product Identifier

Product Form: SubstanceProduct Name: FrostbiteChemical Name: R1234zeEC-No.: 471-480-0CAS-No.: 29118-24-9

**Product Code** : 3803100, 3803100E, 3803100EE

Formula : C3H2F4

**Synonyms** : 1,3,3,3-tetrafluoropropene, (1E)- / (1E)-1,3,3,3-Tetrafluoroprop-1-ene / (E)-1,3,3,3-

Tetrafluoro-1-propene / (E)-1,3,3,3-Tetrafluoroprop-1-ene / (E)-1,3,3,3-

Tetrafluoropropene / trans-1,3,3,3-Tetrafluoropropylene

# 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 : Laboratory use.

1.2.2. Uses Advised Against

Uses Advised Against : Restricted to professional users.

### 1.3. Details of the Supplier of the Safety Data Sheet

#### Supplier

Leica Biosystems Richmond Inc.

5205 Rt. 12

Richmond, Illinois 60071

United States +1 800-572-6501

## Importer

Leica Biosystems Newcastle Ltd

Balliol Business Park West Benton Lane Newcastle Upon Tyne

NE12 8EW United Kingdom

+44 191 215 0567

<u>lbsna-lbs-qa@leicabiosystems.com</u>

## 1.4. Emergency Telephone Number

Emergency Number : CHEMTREC

United Kingdom: +44-20-3807-3798 Within USA and Canada: 1-800-424-9300

International: +1-703-527-3887 (Collect calls accepted)

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the Substance or Mixture

#### **Classification According to the GB CLP Regulation**

Aerosol, Category 3 H229

### 2.2. Label Elements

## **Labelling According to the GB CLP Regulation**

Signal Word (GB CLP) : Warning

**Hazard Statements (GB CLP)** : H229 - Pressurised container: May burst if heated.

Precautionary Statements (GB CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P251 - Do not pierce or burn, even after use.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50

°C/122 °F.

### 2.3. Other Hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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Other Hazards Not Contributing to the

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

**Classification** Asphyxiating gas at high concentrations.

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

#### 3.1. Substances

Name	Product Identifier	%	Classification According to the GB CLP Regulation
1-Propene, 1,3,3,3-tetrafluoro-, (1E)-	(CAS-No.) 29118-24-9	100	Press. Gas (Liq.), H280
	(EC-No.) 471-480-0		

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

### **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. If frostbite or freezing from exposure to gas/liquid

escaping the container occurs: 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. If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not

rub affected area. Get immediate medical attention.

First-Aid Measures After Ingestion : Though risk of ingestion is extremely unlikely, in case of frostbite or freeze burns

due to oral exposure seek immediate medical attention.

## 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Effects** : May cause frostbite on contact with the liquid. Asphyxiant gas.

Symptoms/Effects After Inhalation : In elevated concentrations may cause asphyxiation, central nervous system effects,

and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and

death.

Symptoms/Effects After Skin Contact : Prolonged exposure may cause skin irritation. Contact with gas/liquid escaping the

container can cause frostbite and freeze burns.

Symptoms/Effects After Eye Contact : May cause slight irritation to eyes. Contact with gas/liquid escaping the container

can cause frostbite, freeze burns, and permanent eye damage.

Symptoms/Effects After Ingestion : Not considered a potential route of exposure, but contact with gas/liquid escaping

the container can cause freeze burns and frostbite.

**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 : Not flammable. 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** : Container may explode in heat of fire.

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

**Hazardous Decomposition Products in** 

**Case of Fire** 

: Carbon oxides (CO, CO<sub>2</sub>). Fluorine compounds.

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. Fight fire remotely due to

the risk of explosion.

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**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** : Do not get in eyes, on skin, or on clothing. Do not breathe gas.

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** : Evacuate unnecessary personnel, isolate, and ventilate area. 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.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and Materials for Containment and Cleaning Up

For Containment : Stop leak, if possible without risk. As an immediate precautionary measure, isolate

spill or leak area in all directions.

Methods for Cleaning Up : Clean up spills immediately and dispose of waste safely. Stop the source of the

release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Allow

liquid to evaporate. 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** : Pressurised container: May burst if heated. Do not pierce or burn, even after use.

Asphyxiating gas at high concentrations.

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. Do not breathe gas.

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

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures** : Store and use with adequate ventilation. Do not pierce or burn, even after use.

Comply with applicable regulations.

Storage Conditions : Store in accordance with applicable national storage class systemsKeep/Store away

from direct sunlight, extremely high or low temperatures and incompatible materials. Keep only in the original container in a cool, well ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures

exceeding 50°C/ 122°F.

Incompatible Materials : Alkali metals. Strong oxidisers.

**Heat and ignition sources** : Intense heat may cause container to burst. **Information on mixed storage** : Refer to Section 10 on Incompatible Materials.

7.3. Specific End Use(S)

Laboratory use.

## **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.

### 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. Oxygen detectors should be

used when asphixiating gases may be released.

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#### **Personal Protective Equipment**

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.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 : Chemically resistant materials and fabrics.

**Hand Protection** : Wear protective gloves.

**Eye Protection** : Chemical goggles or safety glasses. **Skin and Body Protection** : Wear suitable protective clothing.

**Respiratory Protection** : Use a NIOSH-approved self-contained breathing apparatus whenever exposure may

exceed established Occupational Exposure Limits.

**Thermal Hazard Protection** : If material is cold, wear thermally resistant protective gloves.

**Environmental Exposure Controls** : Avoid unnecessary release into the environment.

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 : Gas

**Appearance** : Colourless liquified gas

**Odour** : Odourless

**Odour Threshold** No data available No data available **Evaporation Rate** : No data available **Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : -19 °C (-2,2 °F) **Flash Point** : No data available **Auto-Ignition Temperature** : 368 °C (694,4 °F) : No data available **Decomposition Temperature Flammability** : No data available

Vapour Pressure : 427,1 kPa

Relative Vapour Density At 20°C : No data available

Relative Density : 3,92

Solubility : Water: 373 mg/l

Partition Coefficient n-Octanol/Water : 1,6

Viscosity: No data availableExplosive Properties: No data available

Oxidising Properties : None

**Explosive Limits** : No data available

**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

Pressurised container: may burst if heated.

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

#### 10.5. Incompatible Materials

Alkali metals. Strong oxidizers.

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### 10.6. Hazardous Decomposition Products

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

### **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1.	Information	on Toxico	logical	<b>Effects</b>
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**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-Propene, 1,3,3,3-tetrafluoro-, (1E)- (29118-24-9)

LC50 Inhalation Rat > 207000 ppm/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)

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

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 : In elevated concentrations may cause asphyxiation, central nervous system effects, and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors,

cyanosis, muscular weakness, narcosis, numbness of the extremities, unconsciousness and death.

Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation. Contact with gas/liquid escaping the container can cause frostbite and freeze burns.

Symptoms/Injuries After Eye Contact : May cause slight irritation to eyes. Contact with gas/liquid escaping the container

can cause frostbite, freeze burns, and permanent eye damage.

Symptoms/Injuries After Ingestion : Not considered a potential route of exposure, but contact with gas/liquid escaping

the container can cause freeze burns and frostbite.

Chronic Symptoms : None expected under normal conditions of use.

### **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)

#### 12.2. Persistence and Degradability

Frostbite (29118-24-9)	
Persistence and Degradability	Not established.

#### 12.3. Bioaccumulative potential

Frostbite (29118-24-9)	
Bioaccumulative Potential	Not established.

### 12.4. Mobility in Soil

No additional information available

# 12.5. Results Of PBT And vPvB Assessment

No additional information available

12.6. Other adverse effects

**Other Information** : Avoid unintended 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,Recommendationsterritorial, provincial, and international regulations. Do not pierce or burn, even

after use.

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**Ecology - Waste Materials** 

: Avoid unintended 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

ADR	IMDG	IATA	ADN	RID
14.1. UN Numbe	er			
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN Proper	Shipping Name			
AEROSOLS	AEROSOLS	Aerosols, non- flammable	AEROSOLS	AEROSOLS
14.3. Transport	Hazard Class			
2.2	2.2	2.2	2.2	2.2
2	2	2	2	2
14.4. Packing Gr	roup			
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.5. Environme	ental Hazards			
Dangerous for the environment : No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No

### 14.6. Special Precautions For User

No additional information available

# 14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code

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

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

No additional information available

### 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-Propene, 1,3,3,3-tetrafluoro-, (1E)- (29118-24-9)

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 the Japanese ENCS (Existing & New Chemical Substances) inventory

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

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

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

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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

# **SECTION 16: OTHER INFORMATION**

**Date of Preparation or Latest Revision** 

: 03/09/2024

**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

: Acc. to 2019 No. 758 - REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 and subsequent amendments

#### **Full Text of H-statements:**

Aerosol 3	Aerosol, Category 3
H229 Pressurised container: May burst if heated.	
H280	Contains gas under pressure; may explode if heated.
Press. Gas (Liq.) Gases under pressure : Liquefied gas	

#### Classification and Procedure Used to Derive the Classification for Mixtures According to the GB CLP Regulation:

		U	•
Aerosol 3	Expert judgement		

#### **Indication of Changes**

Section	Change	Date Changed	Version
1	Language modified	03/09/2024	2.0
3	Data modified	03/09/2024	2.0
4	Language modified	03/09/2024	2.0
5	Language modified	03/09/2024	2.0
6	Language modified	03/09/2024	2.0
7	Language modified	03/09/2024	2.0
8	Data modified; Language modified	03/09/2024	2.0
9	Data modified	03/09/2024	2.0
10	Language modified	03/09/2024	2.0
11	Data modified; Language modified	03/09/2024	2.0
12	Data modified; Language modified	03/09/2024	2.0
13	Language modified	03/09/2024	2.0
15	Language modified	03/09/2024	2.0
16	Language modified	03/09/2024	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

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

GB CLP - Great Britain Classification, Labelling and Packaging Regulation 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
IOELV - Indicative Occupational Exposure Limit Value

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

MARPOL - International Convention for the Prevention of Pollution

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

Thod – Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
VOC – Volatile Organic Compounds

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LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level

vPvB - Very Persistent and Very Bioaccumulative

WEL - Workplace Exposure Limit

## Limit Value Legal Basis\*

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

United Kingdom - EH40 - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) (as amended)

#### **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) 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

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

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 Co-

operation and Development) WHO: World Health Organization

WITO. World Health Organization

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.

UK GHS SDS

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