

according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended

Creation Date 05-Apr-2010

Revision Date 09-Feb-2024

**Revision Number** 9

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

### 1.1. Product identifier

Product Description:	Perchloric acid 0.1M In glacial acetic acid
Cat No. :	J/5820/PB15, J/5820/PB17, J/5820/25

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended Use** Laboratory chemicals. Sector of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites Product category PC21 - Laboratory chemicals PROC15 - Use as a laboratory reagent **Process categories** ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates) Environmental release category Uses advised against No Information available

### 1.3 Details of the supplier of the safety data sheet

1.3. Details of the supplier of the sa	nety data sheet_
Company	
••••••••••••••••••••••••••••••••••••••	UK entity/business name
	Fisher Scientific UK
	Bishop Meadow Road, Loughborough,
	Leicestershire LE11 5RG, United Kingdom
	EU entity/business name
	Thermo Fisher Scientific
	Janssen Pharmaceuticalaan 3a
	2440 Geel, Belgium
E-mail address	begel.sdsdesk@thermofisher.com
1.4. Emergency telephone number	
	Tel: 01509 231166
	Chemtrec US: (800) 424-9300
	Chemtrec EU: 001-703-527-3887

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

### **Physical hazards**

Flammable liquids

Substances/mixtures corrosive to metal

Category 3 (H226)

Category 1 (H290)

### Health hazards

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation

### **Environmental hazards**

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

### 2.2. Label elements



### Signal Word

Danger

### **Hazard Statements**

H226 - Flammable liquid and vapor

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

### **Precautionary Statements**

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

### 2.3. Other hazards

Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent and very bioaccumulative (vPvB)

This product does not contain any known or suspected endocrine disruptors

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

### 3.2. Mixtures

Component	CAS No	EC No	Weight %	CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Acetic acid	64-19-7	200-580-7	99	Flam. Liq. 3 (H226) Skin Corr. 1A (H314) Eye Dam. 1 (H318)
Perchloric acid	7601-90-3	EEC No. 231-512-4	1	Ox. Liq. 1 (H271) Met. Corr. 1 (H290) Acute Tox. 4 (H302) Skin Corr. 1A (H314) Eye Dam. 1 (H318) STOT RE 2 (H373)

Category 1 A (H314) Category 1 (H318)

Component	Specific concentration limits (SCL's)	M-Factor	Component notes
Acetic acid	Skin Corr. 1A (H314) :: C>=90%	-	-
	Skin Corr. 1B (H314) ::		
	25%<=C<90%		
	Eye Irrit. 2 (H319) ::		
	10%<=C<25%		
	Skin Irrit. 2 (H315) ::		
	10%<=C<25%		
Perchloric acid	Eye Irrit. 2 (H319) :: 1%<=C<10%	-	-
	Ox. Liq. 1 (H271) :: C>50%		
	Ox. Liq. 2 (H272) :: C<=50%		
	Skin Corr. 1A (H314) :: C>=50%		
	Skin Corr. 1B (H314) ::		
	10%<=C<50%		
	Skin Irrit. 2 (H315) ::		
	1%<=C<10%		

Components	Reach Registration Number	
Acetic acid	01-2119475328-30	
Perchloric acid	01-2120066865-44	

### Full text of Hazard Statements: see section 16

### **SECTION 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.
Ingestion	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Inhalation	If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
Self-Protection of the First Aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
4.2. Most important symptoms and	effects, both acute and delayed

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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### **SECTION 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

### Extinguishing media which must not be used for safety reasons

No information available.

### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors.

### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

### 6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

### **SECTION 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

### 7.2. Conditions for safe storage, including any incompatibilities

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Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Corrosives area.

#### Class 3 **Technical Rules for Hazardous Substances (TRGS) 510** Storage Class (LGK) (Germany)

### 7.3. Specific end use(s)

Use in laboratories

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### **Exposure limits**

List source(s): UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020. IRE - 2021 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority EU - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC

Component	The United Kingdom	European Union	Ireland
Acetic acid	STEL: 37 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup> (8h)	TWA: 20 ppm 8 hr.
	STEL: 15 ppm	TWA: 10 ppm (8h)	TWA: 50 mg/m <sup>3</sup> 8 hr.
	TWA: 10 ppm	STEL: 50 mg/m <sup>3</sup> (15min)	STEL: 20 ppm 15 min
	TWA: 25 mg/m <sup>3</sup>	STEL: 20 ppm (15min)	STEL: 50 mg/m <sup>3</sup> 15 min

### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Acetic acid 64-19-7 ( 99 )	DNEL = 25mg/m <sup>3</sup>		DNEL = 25mg/m <sup>3</sup>	

### **Predicted No Effect Concentration (PNEC)**

See values below.

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Acetic acid	PNEC = 3.058mg/L	PNEC =	PNEC = 30.58mg/L	PNEC = 85mg/L	PNEC = 0.47mg/kg
64-19-7 (99)	-	11.36mg/kg	-	-	soil dw
		sediment dw			
Perchloric acid	PNEC =	PNEC = 4.67mg/kg	PNEC = 147mg/L	PNEC = 8.2mg/L	PNEC =
7601-90-3 (1)	0.0215mg/L	sediment dw			0.021mg/kg soil dw

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
Acetic acid	PNEC =	PNEC =			
64-19-7 (99)	0.3058mg/L	1.136mg/kg			
		sediment dw			
Perchloric acid	PNEC =	PNEC =			
7601-90-3 (1)	0.00215mg/L	0.467mg/kg			

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	sediment dw		

### 8.2. Exposure controls

#### Engineering Measures

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective eq Eye Protection		(European standard	d - EN 166)	
Hand Protection	Protectiv	/e gloves		
Glove material Natural rubber Butyl rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness	EU standard EN 374	Glove comments (minimum requirement)
(Refer to manufacturer/s Ensure gloves are suita	se. ructions regarding permo supplier for information) ble for the task: Chemic to take into consideration	al compatability, Dexi n the specific local co	terity, Operational cond	ovided by the supplier of the gloves. ditions, User susceptibility, e.g. he product is used, such as the danger
Respiratory Protect		orkers are facing con ate certified respirato		exposure limit they must use

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143 or Acid gases filter Type E Yellow conforming to EN14387

To protect the wearer, respiratory protective equipment must be the correct fit and be used

Small scale/Laboratory useUse a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure<br/>limits are exceeded or if irritation or other symptoms are experienced.<br/>Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN<br/>141<br/>When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

Prevent product from entering drains.

and maintained properly

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical State	Liquid

Appearance	Colorless
Odor	Odorless
Odor Threshold	No data available
Melting Point/Range	No data available
Softening Point	No data available
Boiling Point/Range	No information available

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Flammability (liquid) Flammability (solid,gas)	Flammable Not applicable	On basis of test data Liquid
Explosion Limits	No data available	
Flash Point	40 °C / 104 °F	Method - No information available
Autoignition Temperature	485 °C / 905 °F	
Decomposition Temperature	No data available	
рН	0.1 @ 20°C	1% aq.sol
Viscosity	No data available	
Water Solubility	Miscible	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/wa	ater)	
Component	log Pow	
Acetic acid	-0.2	
Vapor Pressure	No information available	
Density / Specific Gravity	1.060	
Bulk Density	Not applicable	Liquid
Vapor Density	No information available	(Air = 1.0)
Particle characteristics	Not applicable (liquid)	
9.2. Other information		

Explosive Properties

**Evaporation Rate** 

explosive air/vapour mixtures possible No information available

### **SECTION 10: STABILITY AND REACTIVITY**

10	.1.	Reactivity

None known, based on information available

10.2. Chemical stability

Hygroscopic.

### 10.3. Possibility of hazardous reactions

Hazardous PolymerizationNo information available.Hazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

10.5. Incompatible materials

Strong oxidizing agents. Strong bases.

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

Incompatible products. Heat, flames and sparks. Exposure to moist air or water. Keep away

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

from open flames, hot surfaces and sources of ignition.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information	No acute toxicity information is available for this product
(a) acute toxicity; Oral Dermal Inhalation	Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met

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Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetic acid	3310 mg/kg (Rat)	-	> 40 mg/L (Rat)4 h
(b) skin corrosion/irritation;	Category 1 A		
(c) serious eye damage/irritation;	Category 1		
(d) respiratory or skin sensitization; Respiratory Skin	Based on available data, the c	lassification criteria are not met lassification criteria are not met	
(e) germ cell mutagenicity;	Based on available data, the c	lassification criteria are not met	
(f) carcinogenicity;	Based on available data, the c	lassification criteria are not met	
	There are no known carcinoge	enic chemicals in this product	
	Ũ	·	
(g) reproductive toxicity;	Based on available data, the c	lassification criteria are not met	
(h) STOT-single exposure;	Based on available data, the c	lassification criteria are not met	
(i) STOT-repeated exposure;	Based on available data, the c	lassification criteria are not met	
Target Organs	None known.		
(j) aspiration hazard;	Based on available data, the c	lassification criteria are not met	
Symptoms / effects,both acute and delayed	Product is a corrosive materia Possible perforation of stomac	ay be headache, dizziness, tired I. Use of gastric lavage or emes th or esophagus should be inves ge to the delicate tissue and dar	sis is contraindicated. stigated. Ingestion causes
11.2. Information on other hazards			
Endocrine Disrupting Properties	Assess endocrine disrupting p known or suspected endocrine	roperties for human health. This disruptors.	s product does not contain any

## **SECTION 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity Ecotoxicity effects

Perchloric acid 0.1M In glacial acetic acid

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Acetic acid	Pimephales promelas: LC50 = 88 mg/L/96h	EC50 = 95 mg/L/24h	-
	Lepomis macrochirus: LC50 = 75		
	mg/L/96h		

Component	Microtox	M-Factor
Acetic acid	Photobacterium phosphoreum: EC50 = 8.8	
	mg/L/15 min	
	Photobacterium phosphoreum: EC50 = 8.8	

#### Perchloric acid 0.1M In glacial acetic acid

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mg/L/25 min	
Photobacterium phosphoreum: EC50 = 8.8 mg/L/5	
min	

#### 12.2. Persistence and degradability Persistence Miscible with water. Persistence is unlikely, based on information available. 12.3. Bioaccumulative potential Bioaccumulation is unlikely **Bioconcentration factor (BCF)** Component log Pow No data available Acetic acid -0.2 The product is water soluble, and may spread in water systems. Will likely be mobile in the 12.4. Mobility in soil environment due to its water solubility but will likely degrade over time. Highly mobile in soils Substance is not considered persistent, bioaccumulative and toxic (PBT) / very persistent 12.5. Results of PBT and vPvB assessment and very bioaccumulative (vPvB). 12.6. Endocrine disrupting properties **Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors 12.7. Other adverse effects **Persistent Organic Pollutant** This product does not contain any known or suspected substance **Ozone Depletion Potential** This product does not contain any known or suspected substance

**SECTION 13: DISPOSAL CONSIDERATIONS** 

### 13.1. Waste treatment methods

Waste from Residues/Unused Products	Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
Contaminated Packaging	Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.
Other Information	Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Solutions with low pH-value must be neutralized before discharge.

### **SECTION 14: TRANSPORT INFORMATION**

### IMDG/IMO

<u>14.1. UN number</u> 14.2. UN proper shipping name

Technical Shipping Name 14.3. Transport hazard class(es) UN2920 Corrosive liquid, flammable, n.o.s. Contains acetic acid, perchloric acid 8

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Subsidiary Hazard Class	3
14.4. Packing group	Ш
ADR	
14.1. UN number	UN2920
14.2. UN proper shipping name	Corrosive liquid, flammable, n.o.s.
Technical Shipping Name	Contains acetic acid, perchloric acid
14.3. Transport hazard class(es)	8
Subsidiary Hazard Class	3 II
14.4. Packing group	11
ΙΑΤΑ	
14.1. UN number	UN2920
14.2. UN proper shipping name	Corrosive liquid, flammable, n.o.s.
Technical Shipping Name	Contains acetic acid, perchloric acid
14.3. Transport hazard class(es)	8
Subsidiary Hazard Class	3
14.4. Packing group	Ш
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required.
14.7. Maritime transport in bulk	Not applicable, packaged goods
according to IMO instruments	

### **SECTION 15: REGULATORY INFORMATION**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### International Inventories

Perchloric acid 0.1M In glacial acetic acid

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Acetic acid	64-19-7	200-580-7	-	-	Х	Х	Х	Х	Х
Perchloric acid	7601-90-3	231-512-4	-	-	Х	Х	KE-28137	Х	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Acetic acid	64-19-7	Х	ACTIVE	Х	-	Х	Х	Х
Perchloric acid	7601-90-3	Х	ACTIVE	Х	-	Х	Х	Х

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Acetic acid	64-19-7	-	Use restricted. See item 75. (see link for restriction details)	-
Perchloric acid	7601-90-3	-	Use restricted. See item 75. (see link for restriction	-

### Perchloric acid 0.1M In glacial acetic acid

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details)

### REACH links

https://echa.europa.eu/substances-restricted-under-reach

### Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Acetic acid	64-19-7	Not applicable	Not applicable
Perchloric acid	7601-90-3	Not applicable	Not applicable

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

### **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

### **WGK Classification**

Water endangering class = 1 (self classification)

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Acetic acid	WGK1	Class II : 0.10 g/m <sup>3</sup> (Massenkonzentration)
Perchloric acid	WGK1	

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Acetic acid	Prohibited and Restricted	Group I	
64-19-7 ( 99 )	Substances		

### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

### **SECTION 16: OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H226 - Flammable liquid and vapor

H271 - May cause fire or explosion; strong oxidizer

Perchloric acid 0.1M In glacial acetic acid

H302 - Harmful if swallowed

### Legend

<ul> <li>CAS - Chemical Abstracts Service</li> <li>EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances</li> <li>PICCS - Philippines Inventory of Chemicals and Chemical Substances</li> <li>IECSC - Chinese Inventory of Existing Chemical Substances</li> <li>KECL - Korean Existing and Evaluated Chemical Substances</li> </ul>	TSCA - United States Toxic Substances Control Act Section 8(b) Inventory al DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals
WEL - Workplace Exposure Limit ACGIH - American Conference of Governmental Industrial Hygienists DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic	<ul> <li>TWA - Time Weighted Average</li> <li>IARC - International Agency for Research on Cancer</li> <li>Predicted No Effect Concentration (PNEC)</li> <li>LD50 - Lethal Dose 50%</li> <li>EC50 - Effective Concentration 50%</li> <li>POW - Partition coefficient Octanol:Water</li> <li>vPvB - very Persistent, very Bioaccumulative</li> </ul>
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor Key literature references and sources for data https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index,	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Physical hazards
On basis of test data
Prideing principle "Substantially similar mixtures"

Health Hazards	Bridging principle "Substantially similar mixtures"
Environmental hazards	Bridging principle "Substantially similar mixtures"

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Creation Date	05-Apr-2010
Revision Date	09-Feb-2024
Revision Summary	Not applicable.

# This safety data sheet complies with Regulation UK SI 2019/758 and UK SI 2020/1577 as amended.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## End of Safety Data Sheet