

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

Creation Date 01-Feb-2010

Revision Date 11-Oct-2023

**Revision Number** 7

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

#### 1.1. Product identifier

Product Description:
Cat No. :
Synonyms
CAS No
Molecular Formula
REACH registration number

Acetic acid, sodium salt trihydrate 424260000; 424260010; 424260025; 424260250 Sodium acetate trihydrate 6131-90-4 C2 H3 Na O2 . 3 H2 O 01-2119485123-42 (for the anhydrous form)

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

Recommended UseLaboratory chemicals.Sector of useSU3 - Industrial uses: Uses of substances as such or in preparations at industrial sitesProduct categoryPC21 - Laboratory chemicalsProcess categoriesPROC15 - Use as a laboratory reagentEnvironmental release categoryERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)Uses advised againstNo Information available

#### 1.3. Details of the supplier of the safety 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

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**: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

Based on available data, the classification criteria are not met

#### Acetic acid, sodium salt trihydrate

#### Health hazards

Based on available data, the classification criteria are not met

#### Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements

#### **Hazard Statements**

May form combustible dust concentrations in air

#### 2.3. Other hazards

May form explosible dust-air mixture if dispersed This product does not contain any known or suspected endocrine disruptors

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

#### 3.1. Substances

Component	CAS No	EC No	Weight %	CLP Classification - According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567
Sodium acetate trihydrate	6131-90-4		<=100	-
Sodium acetate	127-09-3	204-823-8	0	-

REACH registration number	01-2119485123-42 (for the anhydrous form)
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Full text of Hazard Statements: see section 16

# **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of first aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Ingestion	Do NOT induce vomiting. Get medical attention.

 Inhalation
 Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

 Self-Protection of the First Aider
 No special precautions required.

 4.2. Most important symptoms and effects, both acute and delayed
 No information available.

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

Notes to Physician

Treat symptomatically.

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

#### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Acetic acid, sodium salt trihydrate

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

# Extinguishing media which must not be used for safety reasons

No information available.

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

Dust can form an explosive mixture with air. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite.

#### **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.

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

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

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

#### 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

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

Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

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

#### Acetic acid, sodium salt trihydrate

#### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes or clothing.

#### **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

Keep containers tightly closed in a dry, cool and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Class 11 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):

#### 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 (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Sodium acetate 127-09-3 ( 0 )		DNEL = 72mg/kg bw/day		DNEL = 12mg/kg bw/day DNEL = 106mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Sodium acetate 127-09-3 ( 0 )		DNEL = 6347.36mg/m <sup>3</sup>		DNEL = 1057.9mg/m <sup>3</sup> DNEL = 70mg/m <sup>3</sup>

#### Predicted No Effect Concentration (PNEC)

See values below.

Component	Fresh water	Fresh water sediment		Microorganisms in sewage treatment	Soil (Agriculture)
Sodium acetate	PNEC = 85.9mg/L	PNEC = 317mg/kg	PNEC = 130mg/L	PNEC = 200mg/L	PNEC = 13.1mg/kg

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127-09-3 ( 0 )	sediment dw		soil dw

Component	Marine water	Marine water sediment	Marine water intermittent	Food chain	Air
Sodium acetate 127-09-3 ( 0 )	PNEC = 8.59mg/L	PNEC = 31.7mg/kg sediment dw			

#### 8.2. Exposure controls

#### **Engineering Measures**

Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equi	-	Wear safety glasses with side shields (or goggles) (European standard - EN 166)		
Hand Protection	Protectiv	ve gloves		
Glove material Natural rubber Nitrile rubber Neoprene PVC Butyl rubber	Breakthrough time See manufacturers recommendations	Glove thickness -	EU standard EN 374	Glove comments (minimum requirement)

Skin and body protection

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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 <b>Recommended Filter type:</b> Particle filter
Small scale/Laboratory use	Maintain adequate ventilation

Environmental exposure controls

No information available.

Long sleeved clothing.

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

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

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No data available
Melting Point/Range	58 °C / 136.4 °F
Softening Point	No data available

Boiling Point/Range	No information available °C	
Flammability (liquid)	Not applicable	Solid
Flammability (solid,gas)	No information available	
Explosion Limits	No data available	
Flash Point	No information available	Method - No information available
Autoignition Temperature	607 °C / 1124.6 °F	
Decomposition Temperature	300 °C	
рН	8-9.5	100 g/l water (20 C)
Viscosity	Not applicable	Solid
Water Solubility	762 g/l (20°C)	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/wa	ter)	
Component	log Pow	
Sodium acetate	-4.22	
Vapor Pressure	No information available	
Density / Specific Gravity	1.45	
Bulk Density	No data available	
Vapor Density	Not applicable	Solid
Particle characteristics	No data available	
9.2. Other information		
Molecular Formula	C2 H3 Na O2 . 3 H2 O	
Molecular Weight	136.08	
Evaporation Rate	Not applicable - Solid	

# **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity	None known, based on information available				
10.2. Chemical stability	Hygroscopic.				
10.3. Possibility of hazardous react	tions				
Hazardous Polymerization Hazardous Reactions	Hazardous polymerization does not occur. No information available.				
10.4. Conditions to avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.				
10.5. Incompatible materials	Acids. Strong bases.				

### 10.6. Hazardous decomposition products

Acetic acid, sodium salt trihydrate

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

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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

#### **Product Information**

(a) acute toxicity;

ACR42426

#### Acetic acid, sodium salt trihydrate

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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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation						
Sodium acetate	LD50 = 3530 mg/kg (Rat)	LD50 > 10 g/kg (Rabbit)	LC50 > 30 g/m <sup>3</sup> (Rat) 1 h						
(b) skin corrosion/irritation;	Based on available data, the c	lassification criteria are not me	at						
(b) skill corrosion/irritation,									
(c) serious eye damage/irritation;	Based on available data, the classification criteria are not met								
(c) senous eye damage/irritation,									
(d) respiratory or skin sensitization									
Respiratory	Based on available data, the c								
Skin	Based on available data, the c	lassification criteria are not me	et						
(e) germ cell mutagenicity;	Based on available data, the c	lassification criteria are not me	<u>et</u>						
(0) goint con managementy,									
(f) carcinogenicity;	Based on available data, the c	lassification criteria are not me	et						
	There are no known carcinoge	enic chemicals in this product							
	-								
(g) reproductive toxicity;	Based on available data, the classification criteria are not met								
(b) STOT single expective.	Deced on evailable data, the e	loggification criteria are not me							
(h) STOT-single exposure;	Based on available data, the c	assincation criteria are not me							
(i) STOT-repeated exposure;	Based on available data, the c	lassification criteria are not me	et						
Target Organs	None known.								
Target Organs	None known.								
(j) aspiration hazard;	Not applicable								
()	Solid								
Symptoms / effects,both acute and	No information available								
delayed									
11.2. Information on other hazards	-								
Endocrine Disrupting Properties	Assess endocrine disrupting p known or suspected endocrine		is product does not contain any						
SE	ECTION 12: ECOLOGIC	CAL INFORMATION							
12.1. Toxicity									
Ecotoxicity effects	Do not empty into drains								
Component	Freshwater Fish	Water Flea	Freshwater Algae						
Sodium acetate	LC50: > 100 mg/L, 96h	EC50: > 1000 mg/L, 48h	-						
	semi-static (Danio rerio)	(Daphnia magna)							

Component	Microtox	M-Factor

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Sodium acetate	= 7200 mg/L EC50 Pseudomonas putida 18 h							
12.2. Persistence and degradability Persistence	eadily biodegradable oluble in water, Persistence is unlikely, based on information available.							
12.3. Bioaccumulative potential	Bioaccumulation is unlikely							
Component	log Pow	Bioconcentration factor (BCF)						
Sodium acetate	-4.22	<10 dimensionless						

12.4. Mobility in soil	The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils
<u>12.5. Results of PBT and vPvB</u> assessment	No data available for assessment.
12.6. Endocrine disrupting	

properties_	
Endocrine Disruptor Information	This product does not contain any known or suspected endocrine disruptors

#### <u>12.7. Other adverse effects</u> Persistent Organic Pollutant Ozone Depletion Potential

Acetic acid, sodium salt trihydrate

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Waste from Residues/Unused Products	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
Contaminated Packaging	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.
European Waste Catalogue (EWC)	According to the European Waste Catalog, Waste Codes are not product specific, but application specific.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

# **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO

Not regulated

14.1. UN number

14.2. UN proper shipping name 14.3. Transport hazard class(es)

14.4. Packing group

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ADR	Not regulated
<u>14.1. UN number</u> 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
IATA	Not regulated
<u>14.1. UN number</u> 14.2. UN proper shipping name 14.3. Transport hazard class(es) 14.4. Packing group	
14.5. Environmental hazards	No hazards identified
14.6. Special precautions for user	No special precautions required.
14.7. Maritime transport in bulk according to IMO instruments	Not applicable, packaged goods
SE	CTION 15: REGULATORY INFORMATION

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

#### International Inventories

Acetic acid, sodium salt trihydrate

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
Sodium acetate trihydrate	6131-90-4	-	-	-	Х	Х	-	Х	Х
Sodium acetate	127-09-3	204-823-8	-	-	Х	Х	KE-00061	Х	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Sodium acetate trihydrate	6131-90-4	-	-	-	-	Х	Х	Х
Sodium acetate	127-09-3	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

Not applicable

Compone	nt	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	on Certain Dangerous	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium acetate t	rihydrate	6131-90-4	-	-	-
Sodium ace	ate	127-09-3	-	-	-

#### 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
Sodium acetate trihydrate	6131-90-4	Not applicable	Not applicable
Sodium acetate	127-09-3	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 .

#### **National Regulations**

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

**WGK Classification** 

See table for values

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Sodium acetate trihydrate	WGK1	
Sodium acetate	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
Sodium acetate 127-09-3 ( 0 )	Prohibited and Restricted 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

Lec	gend
CAS - Chemical Abstracts Service	<b>TSCA</b> - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances	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%	<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> </ul>

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<b>NOEC</b> - No Observed Effect Concentration		
PBT - Persistent, Bioaccum	ulative, Toxic	

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, RTECS

#### **Training Advice**

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

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Revision Date	11-Oct-2023
Revision Summary	SDS sections updated.

### 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**

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)

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of