

Classified as hazardous in accordance with the criteria of EPA New Zealand

Section 1 - Identification

Product Identifier

Product Name SAF Fixative

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code R21263, R21728, R21730, R21732, R21921, R21941

Address Thermo Fisher Scientific New Zealand Ltd

244 Bush Road, Albany, Auckland, New Zealand

Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Telephone / Fax Numbers Tel: 09 980 6700

Fax: 09 980 6788

E-mail address ANZinfo@thermofisher.com

Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Classified as hazardous in accordance with the criteria of EPA New Zealand

GHS Classification

Physical hazards

Substances/mixtures corrosive to metal Category 1

Health hazards

Acute Inhalation Toxicity - Vapors Category 4 Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Category 1 Skin Sensitization Germ Cell Mutagenicity Category 2 Carcinogenicity Category 1B Reproductive Toxicity Category 2 Specific target organ toxicity - (repeated exposure) Category 2

Environmental hazards

Based on available data, the classification criteria are not met

Label Elements

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Signal Word

Danger

Hazard Statements

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H341 Suspected of causing genetic defects if inhaled
- H350 May cause cancer
- H290 May be corrosive to metals
- H332 Harmful if inhaled
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection

Response

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P362 + P364 Take off contaminated clothing and wash it before reuse

Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards which do not result in classification

This product does not contain any known or suspected endocrine disruptors

Section 3 - Composition and Information on Ingredients

| Component | CAS No | Weight % |
|----------------|----------|----------|
| Formaldehyde | 50-00-0 | 1.5 |
| Methyl alcohol | 67-56-1 | 0.5 |
| Acetic acid | 64-19-7 | 2 |
| Sodium acetate | 127-09-3 | 1.5 |

Section 4 - First Aid Measures

Description of first aid measures

General Advice

Show this safety data sheet to the doctor in attendance. Repeated contact may cause allergic reactions in very susceptible persons.

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Inhalation Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately

if symptoms occur. May cause allergic respiratory reaction. If breathing is irregular or stopped, administer artificial respiration. 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.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention. May produce an allergic reaction. Rinse thoroughly with plenty of water

for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur. Eczema injuries of an allergic nature. Allergic symptoms

may develop within 12 hours after exposure.

Ingestion Clean mouth with water. Get medical attention. May produce an allergic reaction. Do NOT

induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious

person. If symptoms persist, call a physician.

Self-Protection of the First Aider Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Ensure that

medical personnel are aware of the material(s) involved, take precautions to protect

themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

May cause allergic skin reaction. . Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest

pain, muscle pain or flushing

Notes to Physician May cause sensitization of susceptible persons. Use of epinephrine may be indicated.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

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

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. Contact with metals may evolve flammable gas.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO2).

Special protective equipment and precautions for fire fighters

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

Personal Precautions, Protective Equipment and Emergency Procedures

Emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Environmental Precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent entry into waterways,

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sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Advice on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid contact with skin. Avoid contact with skin and eyes. Pay attention to flashback. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

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.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible Materials

Strong oxidizing agents.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Control parameters

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor **ACGIH** - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)] Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

| Component | New Zealand WEL | Australia | ACGIH TLV | The United Kingdom |
|----------------|-----------------------------|-----------------------------|---------------|------------------------------------|
| Formaldehyde | TWA: 0.3 ppm | STEL: 2 ppm | TWA: 0.1 ppm | STEL: 2 ppm 15 min |
| | STEL: 0.6 ppm | STEL: 2.5 mg/m ³ | STEL: 0.3 ppm | STEL: 2.5 mg/m ³ 15 min |
| | | TWA: 1 ppm | | TWA: 2 ppm 8 hr |
| | | TWA: 1.2 mg/m ³ | | TWA: 2.5 mg/m ³ 8 hr |
| | | | | Carc. |
| Methyl alcohol | TWA: 200 ppm | STEL: 250 ppm | TWA: 200 ppm | WEL - TWA: 200 ppm TWA; |
| | TWA: 262 mg/m ³ | STEL: 328 mg/m ³ | STEL: 250 ppm | 266 mg/m³ TWA |
| | STEL: 250 ppm | TWA: 200 ppm | Skin | WEL - STEL: 250 ppm |
| | STEL: 328 mg/m ³ | TWA: 262 mg/m ³ | | STEL; 333 mg/m ³ STEL |
| | Skin | | | |
| Acetic acid | TWA: 10 ppm | STEL: 15 ppm | TWA: 10 ppm | STEL: 37 mg/m ³ |

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| TWA: 25 mg/m ³ | STEL: 37 mg/m ³ | STEL: 15 ppm | STEL: 15 ppm |
|----------------------------|----------------------------|--------------|---------------------------|
| STEL: 15 ppm | TWA: 10 ppm | | TWA: 10 ppm |
| STEL: 37 mg/m ³ | TWA: 25 mg/m ³ | | TWA: 25 mg/m ³ |

Biological limit values

NZ - Substances assigned Biological Exposure Indices in the New Zealand Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

ACGIH - American Conference of Governmental Industrial Hygienists (ACGIH) TLVs® and BEIs®- Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices. 2022 Edition

| Component | New Zealand | Australia | ACGIH - Biological Exposure Indices | United Kingdom |
|----------------|------------------------------|-----------|--|----------------|
| Methyl alcohol | 15 mg/L (urine) end of shift | | 15 mg/L | |
| | (Methyl alcohol) | | Medium: urine | |
| | , , , | | Time: end of shift | |
| | | | Determinant: Methanol | |

Appropriate engineering controls

Engineering Measures

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

Individual protection measures, such as personal protective equipment

Eye Protection Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial

applications)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | AUS/NZ Standard | Glove comments |
|--------------------|-------------------|-----------------|-----------------|-----------------------|
| Disposable gloves. | See manufacturers | - | AS/NZS 2161 | (minimum requirement) |
| _ | recommendations | | | |

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.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure Lightweight

protective clothing Apron Impervious gloves

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State Liquid

Appearance

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All to the state of the state o

Odor
Odor No information available
No data available
No information available
No information available
No data available
No data available
No data available
No data available
No information available
No information available
No data available

Flammability (solid,gas) Not applicable Liquid

Explosion Limits No data available

Flash Point No information available Method - No information available

Autoignition Temperature
Decomposition Temperature
Viscosity
Water Solubility
Solubility in other solvents
No data available
No data available
No information available
No information available

Partition Coefficient (n-octanol/water)

Componentlog PowFormaldehyde-0.35Methyl alcohol-0.74Acetic acid-0.2Sodium acetate-4.22

Vapor Pressure No data available
Density / Specific Gravity No data available

Bulk DensityNot applicableLiquidVapor DensityNo data available(Air = 1.0)

Particle characteristics Not applicable (liquid)

Other information

VOC Content(%) 5.5

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid Incompatible products, Excess heat.

Incompatible Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO2).

Section 11 - Toxicological Information

Acute Effects

Information on likely routes of exposure

Product Information

Inhalation Vapor harmful. May cause irritation of respiratory tract. May be harmful if inhaled. May

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cause allergic respiratory reaction.

Eyes May cause irritation. May cause eye irritation with susceptible persons.

Skin May cause irritation. May be harmful in contact with skin. May cause sensitization by skin

contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible

persons.

Ingestion Poison, may be fatal or cause blindness if swallowed. CANNOT BE MADE

NON-POISONOUS. May cause irritation. May be harmful if swallowed. May cause

additional affects as listed under "Inhalation".

Numerical measures of toxicity

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------|--------------------------------|-------------------------------|--------------------------------------|
| Formaldehyde | 500 mg/kg (Rat) | LD50 = 270 mg/kg (Rabbit) | 0.578 mg/L (Rat) 4 h |
| Methyl alcohol | LD50 = 1187 – 2769 mg/kg (Rat) | LD50 = 17100 mg/kg (Rabbit) | LC50 = 128.2 mg/L (Rat) 4 h |
| Acetic acid | 3310 mg/kg (Rat) | - | > 40 mg/L (Rat) 4 h |
| Sodium acetate | LD50 = 3530 mg/kg (Rat) | LD50 > 10 g/kg(Rabbit) | LC50 > 30 g/m ³ (Rat) 1 h |

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

Respiratory SkinNo data available
Category 1

| Component | Test method | Test species | Study result |
|-----------------|------------------------------------|--------------|-----------------|
| Formaldehyde | Skin sensitization Test method | Man | Sensitizer |
| 50-00-0 (1.5) | Patch Test | guinea pig | Sensitization |
| | Respiratory sensitization in vitro | | |
| Methyl alcohol | OECD Test Guideline 406 | guinea pig | non-sensitising |
| 67-56-1 (0.5) | Guinea Pig Maximisation Test | | _ |
| · | (GPMT) | | |

Sensitization No information available

(e) germ cell mutagenicity; Category 2

(f) carcinogenicity; Category 1B

The table below indicates whether each agency has listed any ingredient as a carcinogen

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly

carcinogenic to humans (Group 2B)

| Component | New Zealand | Australia | New South Wales | Western Australia | IARC | EU | UK | Germany |
|--------------|-------------|-----------|--------------------|----------------------|---------|--------------|-------|---------|
| Formaldehyde | Confirmed | Cat 1B | | | Group 1 | Carc Cat. 1B | Cat 3 | |
| | carcinogen | | | | | | | |

(g) reproductive toxicity; No data available

| Component | Test method | Test species / Duration | Study result | |
|----------------|-------------------------|-------------------------------|------------------------|--|
| Methyl alcohol | OECD Test Guideline 416 | Rat / Inhalation 2 Generation | NOAEC = 1.3 mg/l (air) | |

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| 67-56-1 (0.5) | | |
|-----------------|--|--|

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and delayed

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

Section 12 - Ecological Information

Ecotoxicity

Aquatic ecotoxicity

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|----------------|--|---|--|---|
| Formaldehyde | Leuciscus idus: LC50 = 15 mg/L 96h | EC50 = 20 mg/L 96h EC50 = 2 mg/L 48h | EC50 (72h) = 4.89 mg/L (Desmodesmus subspicatus) | |
| Methyl alcohol | Pimephales promelas: LC50 > 10000 mg/L 96h | EC50 > 10000 mg/L 24h | | EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min |
| Acetic acid | Pimephales promelas: LC50 = 88 mg/L/96h Lepomis macrochirus: LC50 = 75 mg/L/96h | EC50 = 95 mg/L/24h | - | Photobacterium phosphoreum: EC50 = 8.8 mg/L/15 min Photobacterium phosphoreum: EC50 = 8.8 mg/L/25 min Photobacterium phosphoreum: EC50 = 8.8 mg/L/5 min |
| Sodium acetate | LC50: > 100 mg/L, 96h semi-static (Danio rerio) | EC50: > 1000 mg/L, 48h (Daphnia magna) | - | = 7200 mg/L EC50 Pseudomonas putida 18 h |

Terrestrial ecotoxicity

| | Component | Earthworm | Avian | Honeybees |
|---|----------------|---------------------------------|-------|-----------|
| Ī | Methyl alcohol | Acute toxicity: LC50 > 1 mg/cm2 | | |
| ١ | | (Eisenia foetida, 48 h, filter | | |
| | | paper) | | |

Persistence and Degradability No information available

| Component | Degradability |
|-----------------|--|
| Formaldehyde | Readily biodegradable (OECD guideline 301A, 301C and 301D) |
| 50-00-0 (1.5) | under aerobic and anaerobic conditions. |
| Methyl alcohol | DT50 ~ 17.2d |
| 67-56-1 (0.5) | >94% after 20d |

Bioaccumulative Potential No information available

| Component | log Pow | Bioconcentration factor (BCF) |
|-----------|---------|-------------------------------|
|-----------|---------|-------------------------------|

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| Formaldehyde | -0.35 | No data available |
|----------------|-------|-------------------|
| Methyl alcohol | -0.74 | <10 dimensionless |
| Acetic acid | -0.2 | No data available |
| Sodium acetate | -4.22 | <10 dimensionless |

Mobility No information available. .

Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors

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

Section 13 - Disposal Considerations

Waste treatment methods

Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

Other Information Disposal agencies

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations . According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14 - Transport Information

| Component | Hazchem Code |
|-----------------|--------------|
| Formaldehyde | 2X |
| 50-00-0 (1.5) | 2W |
| Methyl alcohol | 2WE |
| 67-56-1 (0.5) | |
| Acetic acid | 2P |
| 64-19-7 (2) | 2R |

Not regulated

<u>IATA</u> Not regulated

<u>IMDG/IMO</u> Not regulated

Environmental hazards No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the

Not applicable, packaged goods

IBC Code

Special Precautions No special precautions required. Please refer to the applicable dangerous goods

regulations for additional information.

Additional information None known

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Section 15 - Regulatory Information

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

National Regulations

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information. Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information.

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

| Component | New Zealand | | |
|--------------|----------------------|--|--|
| Formaldehyde | Confirmed carcinogen | | |

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

| Component | Seveso III Directive (2012/18/EC) Qualifying Quantities for Major Accident Notification | - Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | IMDG Marine Pollutant |
|----------------|---|--|-----------------------|
| Formaldehyde | 5 tonne | 50 tonne | |
| Methyl alcohol | 500 tonne | 5000 tonne | |

Authorisation/Restrictions according to EU REACH

| Component | REACH (1907/2006) - Annex XIV - | REACH (1907/2006) - Annex XVII - | REACH Regulation (EC |
|----------------|---------------------------------|------------------------------------|---------------------------------|
| | Substances Subject to | Restrictions on Certain Dangerous | |
| | Authorization | Substances | List of Substances of Very High |
| | | | Concern (SVHC) |
| Formaldehyde | - | Use restricted. See item 72. | - |
| | | (see link for restriction details) | |
| | | Use restricted. See item 28. | |
| | | (see link for restriction details) | |
| | | Use restricted. See item 75. | |
| | | (see link for restriction details) | |
| Methyl alcohol | - | Use restricted. See item 69. | - |
| | | (see link for restriction details) | |
| | | Use restricted. See item 75. | |
| | | (see link for restriction details) | |
| Acetic acid | - | Use restricted. See item 75. | - |
| | | (see link for restriction details) | |

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

International Inventories

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

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| Component | CAS No | NZIoC | AICS | EINECS | ELINCS | NLP | KECL | IECSC | TCSI |
|----------------|----------|-------|------|-----------|--------|-----|----------|-------|------|
| Formaldehyde | 50-00-0 | Х | X | 200-001-8 | - | - | KE-17074 | X | X |
| Methyl alcohol | 67-56-1 | Х | Х | 200-659-6 | - | - | KE-23193 | X | Х |
| Acetic acid | 64-19-7 | Х | Χ | 200-580-7 | - | - | Х | Х | Х |
| Sodium acetate | 127-09-3 | Х | Х | 204-823-8 | - | - | KE-00061 | X | Х |

| Component | CAS No | TSCA | TSCA Inventory notification - | DSL | NDSL | PICCS | ISHL | ENCS |
|----------------|----------|------|-------------------------------|-----|------|-------|------|------|
| | | | Active-Inactive | | | | | |
| Formaldehyde | 50-00-0 | Х | ACTIVE | Х | i | X | Х | Х |
| Methyl alcohol | 67-56-1 | X | ACTIVE | Х | Ī | Х | X | Х |
| Acetic acid | 64-19-7 | Х | ACTIVE | Х | - | Х | Х | Х |
| Sodium acetate | 127-09-3 | Х | ACTIVE | Х | - | Х | X | Х |

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Section 16 - Other Information

This safety data sheet complies with the requirements of the EPA Hazardous Substances (Hazard Classification) Notice 2020 and WorkSafe New Zealand Regulations

Legend

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer NZS 5433:2020 - Transport of Dangerous Goods on Land

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

AICS - Australian Inventory of Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

OECD - Organisation for Economic Co-operation and Development **IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

HSNO classifications provided in the New Zealand Chemical Classification Information Database (CCID).

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

EPA Guide to classifying hazardous substances in New Zealand

EPA - Assigning a product to an existing HSNO approval guide

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazardsOn basis of test dataHealth HazardsCalculation methodEnvironmental hazardsCalculation method

Training Advice

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

Revision Date 05-Jul-2023 Revision Summary Not applicable

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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

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