TRAJAN Trajan Scientific and Medical

Trajan Zero Container with Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate **Buffer Saline**

Trajan Scientific Europe Ltd

Chemwatch: 5551-78 Version No: 3.1

Chemwatch Hazard Alert Code: 3

Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

Issue Date: 09/11/2022 Print Date: 22/05/2023 L.REACH.GB-NIR.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

| Product name | Trajan Zero Container with Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate Buffer Saline | |
|-------------------------------|---|--|
| Chemical Name | Applicable | |
| Synonyms | 48201121, 48203111 | |
| Chemical formula | Not Applicable | |
| Other means of identification | Not Available | |

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

| Relevant identified uses | For preservation and transportation of histological specimens. | |
|--------------------------|--|--|
| Uses advised against | No specific uses advised against are identified. | |

1.3. Details of the manufacturer or supplier of the safety data sheet

| Registered company name | rajan Scientific Europe Ltd | |
|-------------------------|--|--|
| Address | wnhill Business Centre, 14 Vincent Ave, Crownhill Milton Keynes MK8 0AB United Kingdom | |
| Telephone | 1908 568844 | |
| Fax | Not Available | |
| Website | www.trajanscimed.com | |
| Email | CSEurope@trajanscimed.com | |

1.4. Emergency telephone number

| Association / Organisation | Trajan Scientific Europe Ltd | CHEMWATCH EMERGENCY RESPONSE (24/7) |
|-----------------------------------|--------------------------------------|-------------------------------------|
| Emergency telephone numbers | +44 1908 568844 (Mon-Fri 9am to 5pm) | +44 20 3901 3542 |
| Other emergency telephone numbers | Not Available | +44 808 164 9592 |

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

| Classification according to regulation (EC) No 1272/2008 [CLP] and amendments ^[1] | H302 - Acute Toxicity (Oral) Category 4, H315 - Skin Corrosion/Irritation Category 2, H317 - Sensitisation (Skin) Category 1, H319 - Serious Eye Damage/Eye Irritation Category 2, H341 - Germ Cell Mutagenicity Category 2, H350 - Carcinogenicity Category 1B |
|--|--|
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

2.2. Label elements



Signal word Danger

Hazard statement(s)

| Hazaru statement(s) | nazaru statement(s) | |
|---------------------|---------------------------------------|--|
| H302 | Harmful if swallowed. | |
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H319 | Causes serious eye irritation. | |
| H341 | Suspected of causing genetic defects. | |

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| Trajan Zero Container with Neut | ral Buffered Formalin 8% w | v/v (20% v/v) And Phosphate Buffer |
|---------------------------------|----------------------------|------------------------------------|
| | e | |

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H350 May cause cancer.

Supplementary Phrases

Not Applicable

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. | |
|------|--|--|
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. | |
| P261 | Avoid breathing mist/vapours/spray. | |
| P264 | Wash all exposed external body areas thoroughly after handling. | |
| P270 | Do not eat, drink or smoke when using this product. | |
| P272 | Contaminated work clothing should not be allowed out of the workplace. | |

Precautionary statement(s) Response

| P308+P313 | IF exposed or concerned: Get medical advice/ attention. |
|----------------|--|
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. |
| P330 | Rinse mouth. |

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

Cumulative effects may result following exposure*.

Possible respiratory sensitizer*.

Possible cancer-causing agent*.

| formaldehyde | Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply) |
|--------------|---|
| methanol | Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply) |

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

| 1. CAS No 2.EC No 3.Index No 4.REACH No | %[weight] | Name | Classification according to regulation (EC) No 1272/2008 [CLP] and amendments | SCL / M-Factor | Nanoform Particle Characteristics |
|--|-----------|--------------|--|--|---|
| 1. 50-00-0 2.200-001-8 3.605-001-00-5 4.Not Available | 7-9 | formaldehyde | Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 3, Acute Toxicity (Inhalation) Category 3, Skin Corrosion/Irritation Category 1B, Sensitisation (Skin) Category 1, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 1B; H301, H311, H331, H314, H317, H341, H350 ^[2] | * Skin Corr. 1B; H314: $C \ge 25$ % Skin Irrit. 2; H315: 5 % \le C < 25 % Eye Irrit. 2; H319: 5 % \le C < 25 % STOT SE 3; H335: C \ge 5 % Skin Sens.; H317: C \ge 0,2 % | Not Available |
| 1. 67-56-1 2.200-659-6 3.603-001-00-X 4.Not Available | 0-0.5 | methanol * | Flammable Liquids Category 2, Acute Toxicity (Oral) Category 3, Acute Toxicity (Dermal) Category 3, Acute Toxicity (Inhalation) Category 3, Specific Target Organ Toxicity - Single Exposure Category 1; H225, H301, H311, H331, H370 ^[2] | * STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 % | Not Available |
| Legend: | | | Classification drawn from Regulation (EU) No 1272/2008 - e identified as having endocrine disrupting properties | - Annex VI; 3. Classification drawn | from C&L * EU |

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact

- If this product comes in contact with the eyes:
 - Wash out immediately with fresh running water.
 - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

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Continued...

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| | Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|---|
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicate by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructe otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means. |

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination). For poisons (where specific treatment regime is absent):

BASIC TREATMENT

DAGIC TREATIVIENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- * Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.
- BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

5.2. Special hazards arising from the substrate or mixture

| Fire Incompatibility | Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result | |
|------------------------------|---|--|
| 5.3. Advice for firefighters | | |
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. | |
| Fire/Explosion Hazard | Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. | |

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| On combustion, may emit toxic fumes of carbon monoxide (CO). May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. | /ersion No: 3.1 | Trajan Zero Container with Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate Buffer Saline | Print Date: 22/05/2023 |
|--|-----------------|--|------------------------|
| | | May emit acrid smoke. Mists containing combustible materials may be explosive. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. | |

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

| Minor Spills | Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. |
|--------------|---|
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Contain or absorb spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services. |

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

| Safe handling | Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions. DO NOT allow clothing wet with material to stay in contact with skin |
|-----------------------------|--|
| re and explosion protection | See section 5 |
| Other information | Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. |

7.2. Conditions for safe storage, including any incompatibilities

| Suitable container | Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. |
|-------------------------|---|
| Storage incompatibility | Formaldehyde: is a strong reducing agent may polymerise in air unless properly inhibited (usually with methanol up to 15%) and stored at controlled temperatures |

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|--|---|
| | will polymerize with active organic material such as phenol reacts violently with strong oxidisers, hydrogen peroxide, potassium permanganate, acrylonitrile, caustics (sodium hydroxide, yielding formic acid and flammable hydrogen), magnesium carbonate, nitromethane, nitrogen oxides (especially a elevated temperatures), peroxyformic acid is incompatible with strong acids (hydrochloric acid forms carcinogenic bis(chloromethyl)ether*), amines, ammonia, aniline, bisulfides, gelatin, iodine, magnesite, phenol, some monomers, tannins, salts of copper, iron, silver. acid catalysis can produce impurities: methylal, methyl formate Aqueous solutions of formaldehyde: slowly oxidise in air to produce formic acid attack carbon steel Concentrated solutions containing formaldehyde are: unstable, both oxidising slowly to form formic acid and polymerising; in dilute aqueous solutions formaldehyde appears as monomeric hydrate (methylene glycol) - the more concentrated the solution the more polyoxymethylene glycol occurs as oligomers and polymers (methanol and amine-containing compounds inhibit polymer formation) readily subject to polymerisation, at room temperature, in the presence of air and moisture, to form paraformaldehyde (8-100 units of formaldehyde), a solid mixture of linear polyoxymethylene glycol scontaining 90-99% formaldehyde; a cyclic trimer, trioxane (CH2O3), may also form Flammable and/or toxic gases are generated by the combination of aldehydes with azo, diazo compounds, dithiocarbamates, nitrides, and strong reducing agents *The empirical equation may be used to determine the concentration of bis(chloromethyl)ether (BCME) formed by reaction with HCI: log(BCME)ppb = -2.25 + 0.67 · log(HCHO) ppm + 0.77 • log(HCI)ppm Assume values for formaldehyde, in air, of 1 ppm and for HCI of 5 ppm, resulting BCME concentration, in air, would be 0.02 ppb. Avoid reaction with oxidising agents |
| Hazard categories in accordance with Regulation (EC) No 1272/2008 | Not Available |
| Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of | Not Available |

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

| Ingredient | DNELs Exposure Pattern Worker | PNECs Compartment |
|--------------|---|---|
| formaldehyde | Dermal 240 mg/kg bw/day (Systemic, Chronic) Inhalation 9 mg/m ³ (Systemic, Chronic) Dermal 37 µg/cm ² (Local, Chronic) Inhalation 0.375 mg/m ³ (Local, Chronic) Inhalation 0.75 mg/m ³ (Local, Acute) Dermal 102 mg/kg bw/day (Systemic, Chronic) * Inhalation 3.2 mg/m ³ (Systemic, Chronic) * Oral 4.1 mg/kg bw/day (Systemic, Chronic) * Dermal 12 µg/cm ² (Local, Chronic) * Inhalation 0.1 mg/m ³ (Local, Chronic) * | 0.44 mg/L (Water (Fresh)) 0.44 mg/L (Water - Intermittent release) 4.44 mg/L (Water (Marine)) 2.3 mg/kg sediment dw (Sediment (Fresh Water)) 2.3 mg/kg sediment dw (Sediment (Marine)) 0.2 mg/kg soil dw (Soil) 0.19 mg/L (STP) |
| methanol | Dermal 0.4 mg/kg bw/day (Systemic, Chronic) Inhalation 1.3 mg/m ³ (Systemic, Chronic) Inhalation 130 mg/m ³ (Local, Chronic) Dermal 20 mg/kg bw/day (Systemic, Acute) Inhalation 8.8 mg/m ³ (Systemic, Acute) Inhalation 130 mg/m ³ (Local, Acute) Dermal 0.2 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.3 mg/m ³ (Systemic, Chronic) * Oral 0.2 mg/kg bw/day (Systemic, Chronic) * Inhalation 26 mg/m ³ (Local, Chronic) * Inhalation 2.4 mg/kg bw/day (Systemic, Acute) * Inhalation 2.7 mg/m ³ (Systemic, Acute) * Inhalation 2.4 mg/kg bw/day (Systemic, Acute) * Inhalation 2.6 mg/m ³ (Local, Acute) * Inhalation 2.6 mg/m ³ (Local, Acute) * | 20.8 mg/L (Water (Fresh)) 2.08 mg/L (Water - Intermittent release) 1540 mg/L (Water (Marine)) 77 mg/kg sediment dw (Sediment (Fresh Water)) 7.7 mg/kg sediment dw (Sediment (Marine)) 100 mg/kg soil dw (Soil) 100 mg/L (STP) |

* Values for General Population

Occupational Exposure Limits (OEL)

| INGREDIENT DATA | | | | | | |
|--|--------------|---------------|---------------------|---------------------|---------------|-------|
| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
| UK Workplace Exposure Limits (WELs) | formaldehyde | Formaldehyde | 2 ppm / 2.5 mg/m3 | 2.5 mg/m3 / 2 ppm | Not Available | Carc |
| EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs) | methanol | Methanol | 200 ppm / 260 mg/m3 | Not Available | Not Available | Skin |
| UK Workplace Exposure Limits (WELs) | methanol | Methanol | 200 ppm / 266 mg/m3 | 333 mg/m3 / 250 ppm | Not Available | Sk |
| Emergency Limits | | | | | | |
| Ingredient | TEEL-1 | | TEEL-2 | TEEL | 3 | |

Ingredient

methanol

formaldehyde

TEEL-1

Not Available

Not Available

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TEEL-3

Not Available

Not Available

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TEEL-2

Not Available

Not Available

| ngredient | Original IDLH | Revised IDLH | |
|--|---|---|--|
| ormaldehyde | 20 ppm | Not Available | |
| nethanol | 6,000 ppm | Not Available | |
| re listed on Annex I Vhen they are placed on the marke | are susceptible to spontaneous polymerisation or decomposition are gen et in a non-stabilised form, the label must state the name of the substance nised classification and labelling hazardous substances, Table 3.1, Annex | followed by the words "non-stabilised" | |
| 3.2.1. Appropriate engineering controls | any sample ports or openings closed while the carcinogens are contained within | | |
| | | | |
| 8.2.2. Individual protection measures, such as personal protective equipment | | | |
| Eye and face protection | Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] | | |
| Skin protection | See Hand protection below | | |
| Hands/feet protection | Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individu equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands The selection of suitable gloves does not only depend on the material, b manufacturer. Where the chemical is a preparation of several substances and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the making a final choice. Personal hygiene is a key element of effective hand care. Gloves must of washed and dried thoroughly. Application of a non-perfumed moisturiser Suitability and durability of glove type is dependent on usage. Important · frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F7 When prolonged or frequently repeated contact may occur, a glove wit minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent! When only brief contact is expected, a glove with a protection class of 374, AS/NZS 2161.10.1 or national equivalent! | should be removed and destroyed. Put also on further marks of quality which vary from manufacturer to us, the resistance of the glove material can not be calculated in advance e manufacturer of the protective gloves and has to be observed when only be worn on clean hands. After using gloves, hands should be r is recommended. factors in the selection of gloves include: 39, AS/NZS 2161.1 or national equivalent). h a protection class of 5 or higher (breakthrough time greater than 240 | |

Saline

| | Sallie |
|------------------|---|
| | |
| | As defined in ASTM F-739-96 in any application, gloves are rated as: • Excellent when breakthrough time > 480 min • Good when breakthrough time > 20 min • Fair when breakthrough time < 20 min • Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: • Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. • Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. |
| Body protection | See Other protection below |
| Other protection | Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. [AS/NZS 1715 or national equivalent] Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood. Overalls. Pv.C apron. Barrier cream. Skin cleansing cream. Eye wash unit. |

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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| Material | СРІ |
|-------------------|-----|
| BUTYL | A |
| PE/EVAL/PE | A |
| TEFLON | A |
| NEOPRENE | В |
| BUTYL/NEOPRENE | С |
| NAT+NEOPR+NITRILE | С |
| NATURAL RUBBER | С |
| NATURAL+NEOPRENE | С |
| NEOPRENE/NATURAL | С |
| ITRILE | С |
| E | С |
| VA | С |
| PVC | С |
| PVDC/PE/PVDC | С |
| SARANEX-23 | С |
| ARANEX-23 2-PLY | С |
| /ITON | С |
| /ITON/NEOPRENE | С |

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might

Respiratory protection

Type BAX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|---------------------------------------|-------------------------|-------------------------|---------------------------|
| up to 10 x ES | BAX-AUS | - | BAX-PAPR-AUS / Class 1 |
| up to 50 x ES | - | BAX-AUS / Class 1 | - |
| up to 100 x ES | - | BAX-2 | BAX-PAPR-2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

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otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | Colourless liquid with pungent odour; partly mixes with water. | | |
|---|--|--|----------------|
| Physical state | Liquid | Relative density (Water = 1) | Not Available |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Available | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | 100 | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Available | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Available | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Available | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Available | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Partly miscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |
| Nanoform Solubility | Not Available | Nanoform Particle Characteristics | Not Available |
| Particle Size | Not Available | | |

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

| 10.1.Reactivity | See section 7.2 |
|---|--|
| 10.2. Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| 10.3. Possibility of hazardous reactions | See section 7.2 |
| 10.4. Conditions to avoid | See section 7.2 |
| 10.5. Incompatible materials | See section 7.2 |
| 10.6. Hazardous decomposition products | See section 5.3 |

SECTION 11 Toxicological information

11.1. Information on toxicological effects

| Inhaled | The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Inhalation of vapour at relatively low concentrations may cause a tingling sensation in the nose and upper respiratory tract. Slightly higher concentrations may cause a burning sensation, headache.High vapour concentrations of formaldehyde are capable of causing chest constriction, bronchiopneumonia, dysphagia, oedema, spasms of the larynx and dyspnoea. |
|--------------|---|
| Ingestion | Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Ingestion of formaldehyde may cause immediate severe abdominal pain, with vomiting, nausea, diarrhoea, anuria, dizziness, followed by unconsciousness, convulsions and may result in death. The methanol stabiliser in solutions is a cause of visual impairment and possible permanent blindness |
| Skin Contact | Evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there |
| | Continued |

| Project Zero Container with Neutral Buffered Formalin 8% wit/ (20% vit/) And Phosphate Buffered Provide at 2 Trajen Zero Container with Neutral Buffered Formalin 8% wit/ (20% vit/) And Phosphate Buffered Interaction of the sample in heading the basis of the induktion system of the sample in heading the basis of the induktion system in the sample in heading the basis of the induktion system in the sample in heading the basis of the induktion system in the sample in heading the basis of the induktion system in the sample in heading the basis of the induktion system in the sample in heading the basis of the induktion system in the sample in heading the sample in heading the sample in the | emwatch: 5551-78 | | Page 9 of 1 | 15 | Issue Date: 09/11/202 |
|---|---------------------|--------------|---|---|--|
| The instant may presenting demonstration of the individual systemic effects may result following absorption. More region allo context with instanting demonstration is the systemic effects may result following absorption. More region allo context and instantiation of the individual systemic effects may result following absorption. The proceeding is an end of the individual systemic effects may result following absorption. The proceeding is a market of the individual systemic effects may result following absorption. The proceeding is a market of the individual system is a stable proteined system is a market of the individual system is a stable proteined system is a stable proteined system. The individual system is a stable proteined system is a stable proteined system. The proceeding is a stable proteined system is a stable proceeding absorption. They proteined interview the individual system of individual system. The proceeding is a stable proceeding absorption of the system of individual system of indin a system of indin | sion No: 3.1 | Trajan Z | | | Print Date: 22/05/202 |
| Check Produce significant could relation which is any present terry for transmiss of the institution in the interminent. Repeated or produced yoe constant may could represent terry relations (initiant to windhum) of the conjunctual Constant, is important of vision and/or other transmiss of explanation index of the conjunctual Repeated or produced produced terry terry could intervent of the conjunctual Repeated or produced terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry could intervent of the conjunctual Repeated or produced terry terry counce the substantiant of the conjunctual Repeated or produced terry terry counce the substantiant of the conjunctual Repeated or produced terry terry counce the substantiant of the conjunctual Repeated or produced terry terry counce the substantiant of the conjunctual Repeated or the conjuncon terms and the conjunctual Repeated or the conjunctual | | | The material may accentuate any pre-existing dermatitis of Skin contact with the material may damage the health of the Minor regular skin contact with formaldehyde results in ha Formaldehyde is a sensitising agent capable of inducing of exposed to formaldehyde in hospitals, in the production of also been reported as a result of dermal exposure. Open cuts, abraded or irritated skin should not be expose Entry into the blood-stream through, for example, cuts, ab | condition he individual; systemic effects may result following absorption. ardening of skin - tanning. contact dermatitis. Episodes of contact dermatitis have been obser f formaldehyde resins, textiles, shampoos and laminated furniture. d to this material arasions, puncture wounds or lesions, may produce systemic injury | Contact urticaria has |
| Practical experience shows that she contact with the material is capable either of inducing a semislation reaction in a statematerial annusk. Substances that can cause eccupational asthma (alto known as sathmagers and registraty semislation reaction) in a statematerial entropy. Substances that can cause eccupational asthma (alto known as sathmagers and registraty semislation reaction) in a statematerial entropy. Substances that can cause eccupational asthma (alto known as sathmagers and registraty semislation) reaction in the substance and in imposibility in advices at a state of the imposite to advice presented. Where this is no the substances is that can cause eccupational asthma should be desinguished from substances where the imposite and its intervent and its | | Eye | produce significant ocular lesions which are present twent Repeated or prolonged eye contact may cause inflammati | ty-four hours or more after instillation into the eye(s) of experiment ion characterised by temporary redness (similar to windburn) of the | al animals. |
| Neutral Buffered Formalin 8% wiv (20% viv) And Phosphate Buffer Saline TOXICITY IRRITATION Not Available Not Available Not Available TOXICITY IRRITATION Permal (rabbit) LD50: 270 mg/kg ^[2] Eye (human): 4 ppm/5m Inhalation(Rat) LC50: <463 ppm4h ^[1] Eye (rabbit): 0.75 mg/24H SEVERE Oral (Rat) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1] Skin (rabbit): 2 mg/24H SEVERE Skin: adverse effect observed (corrosive) ^[1] TOXICITY IRRITATION Permal (rabbit) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (corrosive) ^[1] Skin (rabbit): 2 mg/24H SEVERE Skin: adverse effect observed (corrosive) ^[1] Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] | | Chronic | Practical experience shows that skin contact with the mate individuals, and/or of producing a positive response in exp Substances that can cause occupational asthma (also knd hyper-responsiveness via an immunological, irritant or oth the substance, sometimes even to tiny quantities, may can asthma. Not all workers who are exposed to a sensitiser w become hyper-responsive. Substances than can cuase occupational asthma should I with pre-existing air-way hyper-responsiveness. The latter Wherever it is reasonably practicable, exposure to substa possible the primary aim is to apply adequate standards of Activities giving rise to short-term peak concentrations sho surveillance is appropriate for all employees exposed or li should be appropriate consultation with an occupational h On the basis of epidemiological data, the material is regar association between human exposure to the material and There is sufficient evidence to provide a strong presumptio on the basis of: - clear results in appropriate animal studies where effects dose levels as other toxic effects but which are not second Limited evidence suggests that repeated or long-term occ biochemical systems. When administered by inhalation, formaldehyde induced so occurrence of a number of cancers has been reported in f and nasopharangeal cancer. The occurrence of these can of exposed cases were often small and some studies did cancers of the lung, nasopharynx and oropharynx and nas Several investigations have concluded that specific respira formaldehyde-exposed workers. These studies have beer persons exposed to formaldehyde and had asthma-like sy to the mechanism for this increased sensitivity is unknown. There is limited evidence that formaldehyde has any adver function in female workers exposed to formaldehyde in the | erial is capable either of inducing a sensitisation reaction in a subsperimental animals. own as asthmagens and respiratory sensitisers) can induce a state her mechanism. Once the airways have become hyper-responsive, use respiratory symptoms. These symptoms can range in severity will become hyper-responsive and it is impossible to identify in adv be distinguished from substances which may trigger the symptoms r substances are not classified as asthmagens or respiratory sensi- nces that can cuase occupational asthma should be prevented. W of control to prevent workers from becoming hyper-responsive. ould receive particular attention when risk management is being co- able to be exposed to a substance which may cause occupational lealth professional over the degree of risk and level of surveillance rded as carcinogenic to humans. There is sufficient data to establis the development of cancer. on that human exposure to the material may result in development have been observed in the absence of marked maternal toxicity, co- dary non-specific consequences of the other toxic effects. supational exposure may produce cumulative health effects involvir squamous cell carcinomas of the nasal cavity in rats of both sexess humans, the evidence for a possible involvement of formaldehyde nor show excesses In humans. Formaldehyde exposure has been sal passages. atory sensitisation occurs based on positive bronchial provocation n criticised for methodological reasons. One large study however re- rymptoms met the study criteria for formaldehyde-induced asthma; r mg/m3 formaldehyde. Although differential individual sensitivity have e garment industry, revealed an increased incidence of menstrual | e of specific airway further exposure to from a runny nose to ance who are likely to s of asthma in people tisers /here this is not onsidered. Health asthma and there sh a causal tal toxicity, generally or at around the same ng organs or . Although excess is strongest for nasal udy, but the numbers associated with tests amongst evealed that 5% of this included a as been established, ation of reproductive |
| Mot Available Not Available w/v (20% v/v) And Phiosphate Buffer Saline Not Available Inhalation Kash LD50: 270 mg/kg ^[2] Eye (human): 4 ppm/5m Inhalation(Rat) LC50: <463 ppm4h ^[1] Eye (rabbil): 0.75 mg/24H SEVERE Oral (Rat) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1] Skin (human): 0.15 mg/3d-I mild Skin (rabbit): 2 mg/24H SEVERE Oral (Rat) LD50: 100 mg/kg ^[2] Eye (rabbil): 0.015 mg/3d-I mild Toxicitry Inhalation(Rat) LC50: second (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 100 mg/24h-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Skin (rabbit): 20 mg/24 h-moderate | Trajan Zero Con | ntainer with | | | |
| Buffer Saline TOXICITY IRRITATION Dermal (rabbit) LD50: 270 mg/kg ^[2] Eye (human): 4 ppm/5m Inhalation(Rat) LC50: <463 ppm4h ^[1] Eye (rabbit): 0.75 mg/24H SEVERE Oral (Rat) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1] Skin (human): 0.15 mg/3d-I mild Skin (rabbit): 2 mg/24H SEVERE Oral (Rat) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (corrosive) ^[1] Skin (rabbit): 2 mg/24H SEVERE Skin: adverse effect observed (corrosive) ^[1] Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 1580 mg/kg ^[2] Eye (rabbit): 40 mg-moderate Inhalation(Rat) LC50: 664000 ppm4h ^[2] Eye (rabbit): 20 mg/24h-moderate Oral (Rat) LD50: 1580 mg/kg ^[2] Eye (rabbit): 20 mg/24h-moderate | | | | | |
| Dermal (rabbit) LD50: 270 mg/kg ^[2] Eye (human): 4 ppm/5m Inhalation(Rat) LC50: <463 ppm4h ^[1] Eye (rabbit): 0.75 mg/24H SEVERE Oral (Rat) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1] Skin (human): 0.15 mg/3d-I mild Skin (rabbit): 2 mg/24H SEVERE Skin (rabbit): 2 mg/24H SEVERE Skin (rabbit): 2 mg/24H SEVERE Dermal (rabbit) LD50: 15800 mg/kg ^[2] IRRITATION Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Total (rabbit) LD50: 5628 mg/kg ^[2] | | | Not Available | Not Available | |
| Inhalation(Rat) LC50: <463 ppm4h ^[1] Eye (rabbit): 0.75 mg/24H SEVERE Oral (Rat) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1] Skin (human): 0.15 mg/3d-I mild Skin (rabbit): 2 mg/24H SEVERE TOXICTY Skin: adverse effect observed (corrosive) ^[1] Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 100 mg/24h-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Toxicitien (rabbit): 20 mg/24 h-moderate | | | ΤΟΧΙΟΙΤΥ | IRRITATION | |
| formaldehyde Oral (Rat) LD50: 100 mg/kg ^[2] Eye: adverse effect observed (irritating) ^[1] Skin (human): 0.15 mg/3d-l mild Skin (rabbit): 2 mg/24H SEVERE Skin: adverse effect observed (corrosive) ^[1] Skin: adverse effect observed (corrosive) ^[1] Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Total (rabbit): 20 mg/24 h-moderate | | | Dermal (rabbit) LD50: 270 mg/kg ^[2] | Eye (human): 4 ppm/5m | |
| methanol Skin (human): 0.15 mg/3d-l mild Skin (rabbit): 2 mg/24H SEVERE Skin: adverse effect observed (corrosive)[¹] Dermal (rabbit) LD50: 15800 mg/kg ^{[2}] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^{[2}] Oral (Rat) LD50: 5628 mg/kg ^{[2}] Eye: no adverse effect observed (not irritating) ^{[1}] Skin (rabbit): 20 mg/24 h-moderate | | | Inhalation(Rat) LC50: <463 ppm4h ^[1] | Eye (rabbit): 0.75 mg/24H SEVERE | |
| methanol Skin (rabbit): 2 mg/24H SEVERE Skin: adverse effect observed (corrosive) ^[1] Jornal (rabbit) LD50: 15800 mg/kg ^[2] IRRITATION Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Intervention | forr | maldehyde | Oral (Rat) LD50: 100 mg/kg ^[2] | Eye: adverse effect observed (irritating) ^[1] | |
| Toxicity IRRITATION Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Skin (rabbit): 20 mg/24 h-moderate | | | | Skin (human): 0.15 mg/3d-l mild | |
| Image: methanol TOXICITY IRRITATION Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Inhalation | | | | Skin (rabbit): 2 mg/24H SEVERE | |
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| methanol Dermal (rabbit) LD50: 15800 mg/kg ^[2] Eye (rabbit): 100 mg/24h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Demoderate | | | τονιατγ | | |
| methanol Inhalation(Rat) LC50: 64000 ppm4h ^[2] Eye (rabbit): 40 mg-moderate Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Inhalation(Rat) LC50: 64000 ppm4h ^[2] | | | | | |
| methanol Oral (Rat) LD50: 5628 mg/kg ^[2] Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate Skin (rabbit): 20 mg/24 h-moderate | | | Dormal (rabbit) DE0: 45900 mal/[2] | Eve (rabbit): 100 mg/24b madarata | |
| Skin (rabbit): 20 mg/24 h-moderate | | | () | | |
| | | methanol | Inhalation(Rat) LC50: 64000 ppm4h ^[2] | Eye (rabbit): 40 mg-moderate | |
| Skin: no adverse effect observed (not irritating) ^[1] | | methanol | Inhalation(Rat) LC50: 64000 ppm4h ^[2] | Eye (rabbit): 40 mg-moderate Eye: no adverse effect observed (not irritating) ^[1] | |
| | | methanol | Inhalation(Rat) LC50: 64000 ppm4h ^[2] | Eye (rabbit): 40 mg-moderate Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate | |
| Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwis specified data extracted from RTECS - Register of Toxic Effect of chemical Substances | | methanol | Inhalation(Rat) LC50: 64000 ppm4h ^[2] | Eye (rabbit): 40 mg-moderate Eye: no adverse effect observed (not irritating) ^[1] Skin (rabbit): 20 mg/24 h-moderate | |

FORMALDEHYDE

The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the

| Trajan Zero Container with Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate Buffer | |
|--|---|
| Saline | _ |

| | distribution of the substance and the opportunities for distributed can be a more important allergen than one clinical point of view, substances are noteworthy if the No significant acute toxicological data identified in liter The material may produce severe irritation to the eye of produce conjunctivitis. The material may produce severe skin irritation after p form of dermatitis is often characterised by skin redner Histologically there may be intercellular oedema of the unlikely, given the severity of response, but repeated a Asthma-like symptoms may continue for months or ev known as reactive airways dysfunction syndrome (RAI criteria for diagnosing RADS include the absence of p asthma-like symptoms within minutes to hours of a do airflow pattern on lung function tests, moderate to sev | with stronger sensitising potential with y produce an allergic test reaction in rature search. causing pronounced inflammation. Re- prolonged or repeated exposure, and ss (erythema) thickening of the epide e spongy layer (spongiosis) and intrac- exposures may produce severe ulcera- ren years after exposure to the materi- DS) which can occur after exposure to revious airways disease in a non-atop iccumented exposure to the irritant. Other ere bronchial hyperreactivity on meth | th which few individuals come into contact. From a more than 1% of the persons tested. epeated or prolonged exposure to irritants may may produce a contact dermatitis (nonallergic). This rmis. zellular oedema of the epidermis. Prolonged contact is ation. al ends. This may be due to a non-allergic condition o high levels of highly irritating compound. Main oic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversible |
|---|---|---|---|
| | the concentration of and duration of exposure to the in result of exposure due to high concentrations of irritati | ritating substance. On the other hand ing substance (often particles) and is | , industrial bronchitis is a disorder that occurs as a |
| | the concentration of and duration of exposure to the in result of exposure due to high concentrations of irritati disorder is characterized by difficulty breathing, cough WARNING: This substance has been classified by the Tenth Annual Report on Carcinogens: Substance antic | ritating substance. On the other hand ing substance (often particles) and is and mucus production. ARC as Group 1: CARCINOGENIC cipated to be Carcinogen | I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The |
| METHANOL | the concentration of and duration of exposure to the in result of exposure due to high concentrations of irritati disorder is characterized by difficulty breathing, cough WARNING: This substance has been classified by the | ritating substance. On the other hand ing substance (often particles) and is and mucus production. a IARC as Group 1: CARCINOGENIC cipated to be Carcinogen Human Services 2002] or repeated exposure and may produ hema) and swelling the epidermis. His | Industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The TO HUMANS. Ice a contact dermatitis (nonallergic). This form of |
| METHANOL Acute Toxicity | the concentration of and duration of exposure to the in result of exposure due to high concentrations of irritati disorder is characterized by difficulty breathing, cough WARNING: This substance has been classified by the Tenth Annual Report on Carcinogens: Substance antic [<i>National Toxicology Program: U.S. Dep. of Health & F</i> The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryth | ritating substance. On the other hand ing substance (often particles) and is and mucus production. a IARC as Group 1: CARCINOGENIC cipated to be Carcinogen Human Services 2002] or repeated exposure and may produ hema) and swelling the epidermis. His | Industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The TO HUMANS. Ice a contact dermatitis (nonallergic). This form of |
| | the concentration of and duration of exposure to the in result of exposure due to high concentrations of irritati disorder is characterized by difficulty breathing, cough WARNING: This substance has been classified by the Tenth Annual Report on Carcinogens: Substance antio [<i>National Toxicology Program: U.S. Dep. of Health & F</i> The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (ervtl spongy layer (spongiosis) and intracellular oedema of | ritating substance. On the other hand ing substance (often particles) and is and mucus production. e IARC as Group 1: CARCINOGENIC cipated to be Carcinogen <i>Human Services 2002</i>] or repeated exposure and may produ hema) and swelling the epidermis. His the epidermis. | I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The TO HUMANS . |
| Acute Toxicity | the concentration of and duration of exposure to the irr result of exposure due to high concentrations of irritati disorder is characterized by difficulty breathing, cough WARNING: This substance has been classified by the Tenth Annual Report on Carcinogens: Substance antic [<i>National Toxicology Program: U.S. Dep. of Health & F</i> The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryth spongy layer (spongiosis) and intracellular oedema of | ritating substance. On the other hand ing substance (often particles) and is and mucus production. a IARC as Group 1: CARCINOGENIC cipated to be Carcinogen <i>Human Services 2002</i>] or repeated exposure and may produ hema) and swelling the epidermis. His the epidermis. | I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The TO HUMANS . |
| Acute Toxicity Skin Irritation/Corrosion | the concentration of and duration of exposure to the irr result of exposure due to high concentrations of irritati disorder is characterized by difficulty breathing, cough WARNING: This substance has been classified by the Tenth Annual Report on Carcinogens: Substance antic [<i>National Toxicology Program: U.S. Dep. of Health & F</i> The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryth spongy layer (spongiosis) and intracellular oederna of | ritating substance. On the other hand ing substance (often particles) and is and mucus production. a IARC as Group 1: CARCINOGENIC cipated to be Carcinogen Human Services 2002] or repeated exposure and may produ hema) and swelling the epidermis. His the epidermis. | I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The TO HUMANS . |

Legend: 🗙

Data either not available or does not fill the criteria for classification
 Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

| Trajan Zero Container with | Endpoint | Test Duration (hr) | Species | Value | Source |
|--|------------------|--------------------|-------------------------------|------------------|------------------|
| Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate Buffer Saline | Not Available | Not Available | Not Available | Not Available | Not Available |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 312h | Crustacea | 0.005mg/l | 4 |
| <i>.</i> | LC50 | 96h | Fish | 0.727-9.193mg/l | 4 |
| formaldehyde | EC50 | 72h | Algae or other aquatic plants | 1.034-1.984mg/l | 4 |
| | EC50 | 96h | Algae or other aquatic plants | 0.375-0.579mg/l | 4 |
| | EC50 | 48h | Crustacea | 3.26mg/l | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 720h | Fish | 0.007mg/L | 4 |
| methanol | LC50 | 96h | Fish | 290mg/l | 2 |
| | EC50 | 96h | Algae or other aquatic plants | 14.11-20.623mg/l | 4 |
| | EC50 | 48h | Crustacea | >10000mg/l | 2 |

- Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms.

For formaldehyde:

Environmental fate:

Formaldehyde is ubiquitous in the environment as a contaminant of smoke and as photochemical smog.

In the atmosphere, formaldehyde both photolyses and reacts with reactive free radicals (primarily hydroxyl radicals); half-lives in the sunlit tropospheres are 1.25 to 6 hours for photolysis, and 7.13-71.3 hours for reaction with hydroxyl radicals.

Reaction with nitrate radicals, insignificant during the day, may be an important removal process at night. Due to its solubility, formaldehyde will efficiently transfer to rain and surface

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water; one model predicts dry deposition and wet removal half-lives of 19 and 50 hours, respectively.

In water, formaldehyde will biodegrade to low concentrations within days; adsorption to sediment and volatilisation are not expected to be significant routes.

In soil, aqueous solutions of formaldehyde leach through the soil; at high concentrations adsorption to clay minerals may occur. Although biodegradable under both aerobic and anaerobic conditions the fate of formaldehyde in soil is unclear.

It does not bioconcentrate in the food chain.

Concentrated solutions containing formaldehyde are unstable, both oxidising slowly to form formic acid and polymerising. In the presence of air and moisture, polymerisation takes place readily in concentrated solutions at room temperature to form paraformaldehyde, a solid mixture of linear polyoxymethylene glycols containing 90-99% formaldehyde. Drinking Water Standards:

hydrocarbon total: 10 ug/l (UK max.) pesticide: 0.1 ug/l (UK max.) formaldehyde: 900 ug/l (WHO guideline) Air Quality Standards: <0.1 mg/m3 as a 30 min. average, indoor air, non-industrial buildings

(WHO guideline)

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|--------------|---------------------------|-----------------------------|
| formaldehyde | LOW (Half-life = 14 days) | LOW (Half-life = 2.97 days) |
| methanol | LOW | LOW |

12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation |
|--------------|---------------------|
| formaldehyde | LOW (LogKOW = 0.35) |
| methanol | LOW (BCF = 10) |

12.4. Mobility in soil

| Ingredient | Mobility |
|--------------|----------------|
| formaldehyde | HIGH (KOC = 1) |
| methanol | HIGH (KOC = 1) |

12.5. Results of PBT and vPvB assessment

| | P | В | Т |
|-------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
| PBT | × | × | × |
| vPvB | × | × | × |
| PBT Criteria fulfilled? | | | No |
| vPvB | | | No |

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

| 13.1. Waste treatment methods | 3 |
|-------------------------------|--|
| Product / Packaging disposal | Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: Reduction Recycling Disposal (if all else fails) This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. It may be necessary to collect all wash water for recycling options. Consult state Land Waste Authority for disposal. Nerveycle wherever possible or consult manufacture for recycling options. Consult State Land Waste Authority for disposal. Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill. |

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Issue Date: 09/11/2022 23

| /ersion No: 3.1 Trajan | Zero Container with Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate Buffer Saline | Print Date: 22/05/20 |
|-------------------------|---|----------------------|
| Waste treatment options | Not Available | |
| Sewage disposal options | Not Available | |
| | | |

SECTION 14 Transport information

Labels Required

Marine Pollutant

NO

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| 14.1. UN number or ID number | Not Applicable | | | |
|---------------------------------|--------------------|----------------|----------------|--|
| 14.2. UN proper shipping name | Not Applicable | Not Applicable | | |
| 14.3. Transport hazard | Class | Not Applicab | le | |
| class(es) | Subsidiary risk | Not Applicab | le | |
| 14.4. Packing group | Not Applicable | | | |
| 14.5. Environmental hazard | Not Applicable | | | |
| | Hazard identificat | ion (Kemler) | Not Applicable | |
| | Classification cod | e | Not Applicable | |
| 14.6. Special precautions for | Hazard Label | | Not Applicable | |
| user | Special provisions | 3 | Not Applicable | |
| | Limited quantity | | Not Applicable | |
| | Tunnel Restrictior | n Code | Not Applicable | |

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| 14.1. UN number | Not Applicable | | | | | |
|---------------------------------------|--|---------------------------------------|----------------|--|--|--|
| 14.2. UN proper shipping name | Not Applicable | Not Applicable | | | | |
| 14.3. Transport hazard | ICAO/IATA Class | O/IATA Class Not Applicable | | | | |
| class(es) | ICAO / IATA Subrisk | Not Applicable | | | | |
| | ERG Code | Not Applicable | | | | |
| 14.4. Packing group | Not Applicable | | | | | |
| 14.5. Environmental hazard | Not Applicable | | | | | |
| | Special provisions | | Not Applicable | | | |
| | Cargo Only Packing Instructions | | Not Applicable | | | |
| | Cargo Only Maximum Qty / Pack | | Not Applicable | | | |
| 14.6. Special precautions for user | Passenger and Cargo Packing Instructions | | Not Applicable | | | |
| 4001 | Passenger and Cargo Maximum Qty / Pack | | Not Applicable | | | |
| | Passenger and Cargo | Limited Quantity Packing Instructions | Not Applicable | | | |
| | Passenger and Cargo Limited Maximum Qty / Pack | | Not Applicable | | | |

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| 14.1. UN number | Not Applicable | | |
|------------------------------------|--|--|--|
| 14.2. UN proper shipping name | Not Applicable | | |
| 14.3. Transport hazard class(es) | IMDG Class Not Applicable IMDG Subrisk Not Applicable | | |
| 14.4. Packing group | Not Applicable | | |
| 14.5. Environmental hazard | Not Applicable | | |
| 14.6. Special precautions for user | EMS NumberNot ApplicableSpecial provisionsNot ApplicableLimited QuantitiesNot Applicable | | |

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| 14.1. UN number | Not Applicable |
|-------------------------------|----------------|
| 14.2. UN proper shipping name | Not Applicable |

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| 14.3. Transport hazard class(es) | Not Applicable Not Applicable | | | |
|------------------------------------|--|--|--|--|
| 14.4. Packing group | Not Applicable | Not Applicable | | |
| 14.5. Environmental hazard | Not Applicable | | | |
| 14.6. Special precautions for user | Classification code Special provisions Limited quantity Equipment required Fire cones number | Not Applicable Not Applicable Not Applicable Not Applicable | | |

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|--------------|---------------|
| formaldehyde | Not Available |
| methanol | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|--------------|---------------|
| formaldehyde | Not Available |
| methanol | Not Available |

Europe EC Inventory

SECTION 15 Regulatory information

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

formaldehyde is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List

of Substances EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 12) Restricted substances and maximum concentration limits by weight in homogeneous materials EU REACH Regulation (EC) No 1907/2006 - Annex XVII (Appendix 2) Carcinogens: Category 1 B

methanol is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

EU Consolidated List of Indicative Occupational Exposure Limit Values (IOELVs) EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

Europe EC Inventory European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and

Packaging of Substances and Mixtures - Annex VI

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

ECHA SUMMARY

| Ingredient | CAS number | Index No | | ECHA Dossier | |
|----------------------------------|---|--------------|--|--|--|
| formaldehyde | 50-00-0 | 605-001-00-5 | | Not Available | |
| Harmonisation (C&L Inventory) | Hazard Class and Category Code(s) | | Pictograms Signal Word Code(s) | Hazard Statement Code(s) | |
| 1 | Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1; Eye Dam. 1; Acute Tox. 3; Carc. 2 | | GHS08; GHS05; GHS06; Dgr | H301; H311; H314; H317; H331; H351 | |
| 2 | Skin Sens. 1A; Acute Tox. 2; Acute Tox. 3; Skin Corr. 1A; Eye Dam. 1; Muta. 2; Carc. 1A; STOT SE 3; Flam. Liq. 3; Flam. Gas 1; Liq.; Resp. Sens. 1; STOT SE 1; STOT RE 1; Met. Corr. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1 | | GHS06; Dgr; GHS0 GHS05; GHS09; GHS01 | 8; H317; H330; H301; H314; H341; H350; H318; H335; H226; H220; H280; H334; H370; H372; H336; H290; H400; H310; H410 | |

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Continued...

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Trajan Zero Container with Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate Buffer Saline

| Ingredient | CAS number I | ndex No | | ECHA Dossier | |
|----------------------------------|--|--|-----------------------------------|--|--|
| methanol | 67-56-1 | 67-56-1 603-001-00-X | | Not Available | |
| Harmonisation (C&L Inventory) | Hazard Class and Category Code(s) | | Pictograms Signal Word Code(s) | Hazard Statement Code(s) | |
| 1 | Flam Lig 2: Acute Tox 3: Acute Tox 3: Acute Tox 3: STOT SE 1 | | GHS08; GHS02; GHS06; Dgr | H225; H301; H311; H331; H370 | |
| 2 | | Flam. Liq. 2; Acute Tox. 3; Acute Tox. 3; STOT SE 1; Eye Irrit. 2; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; Skin Corr. 1A; STOT SE 3; STOT SE 3; Acute Tox. 2; Carc. 2 | | ; H301; H311; H370; H315; H319; H335; H360; H372; H336; H340; H350; H400; H410; H330; H224 | |

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory Status

| National Inventory | Status |
|--|---|
| Australia - AIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (formaldehyde; methanol) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| Vietnam - NCI | Yes |
| Russia - FBEPH | Yes |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

SECTION 16 Other information

| Revision Date | 09/11/2022 |
|---------------|------------|
| Initial Date | 25/08/2022 |

Full text Risk and Hazard codes

| H220 | Extremely flammable gas. |
|--------|--|
| H224 | Extremely flammable liquid and vapour. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |
| H314 (| Causes severe skin burns and eye damage. |
| H318 (| Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 I | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H340 | May cause genetic defects. |
| H351 | Suspected of causing cancer. |
| H360 I | May damage fertility or the unborn child. |
| H370 | Causes damage to organs. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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Trajan Zero Container with Neutral Buffered Formalin 8% w/v (20% v/v) And Phosphate Buffer

Saline

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index AIIC: Australian Inventory of Industrial Chemicals DSL: Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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