

Fiberlock AfterShock ICP Construction Inc.

Version No: 2.3

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **01/25/2023**Print Date: **01/26/2023**S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

| Product name | Fiberlock AfterShock |
|-------------------------------|----------------------|
| Synonyms | Not Available |
| Other means of identification | Not Available |

Recommended use of the chemical and restrictions on use

| Relevant identified uses | Mold Remediation Coating |
|--------------------------|--------------------------|
| | |

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

| Registered company name | ICP Construction Inc. |
|-------------------------|--|
| Address | 150 Dascomb Road Andover, MA 01810 United States |
| Telephone | 1-866-667-5119 1-978-623-9987 |
| Fax | Not Available |
| Website | www.icpgroup.com |
| Email | sds@icpgroup.com |

Emergency phone number

| Association / Organisation | ChemTel |
|-----------------------------------|----------------|
| Emergency telephone numbers | 1-800-255-3924 |
| Other emergency telephone numbers | 1-813-248-0585 |

SECTION 2 Hazard(s) identification

Classification of the substance or mixture



Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification Reproductive Toxicity Category 2, Sensitisation (Skin) Category 1, Carcinogenicity Category 2

Label elements

Hazard pictogram(s)





Signal word

Warning

Hazard statement(s)

| H361 | Suspected of damaging fertility or the unborn child. |
|------|--|
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |

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Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

| | , , , , , , , , , , , , , , , , , , , |
|------|---|
| P201 | Obtain special instructions before use. |
| P280 | Wear protective gloves and protective clothing. |
| P261 | Avoid breathing mist/vapours/spray. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P272 | Contaminated work clothing must 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 and soap. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |

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.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|-------------|-----------|---|
| 13463-67-7* | 5-15 | titanium dioxide |
| 25265-77-4 | 1-5 | 2.2.4-trimethyl-1.3-pentanediol monoisobutyrate |
| 6846-50-0 | 0.1-1 | 2.2.4-trimethyl-1.3-pentanediol diisobutyrate |
| 1897-45-6* | 0.1-1 | Clorothanil |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

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. 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 | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus. |

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

for simple esters:

BASIC TREATMENT

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- ► 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.
- $\mbox{\Large \begin{tabular}{l} \blacktriangleright\end{tabular}}$ Monitor and treat, where necessary, for pulmonary oedema .
- Monitor and treat, where necessary, for shock.
- 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.
- ▶ Give activated charcoal.

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.
- F 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.
- F 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.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

SECTION 5 Fire-fighting measures

Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- ► BCF (where regulations permit).

Special hazards arising from the substrate or mixture

| Eiro Incompatibility | Avoid contamination u |
|----------------------|-----------------------|

| Fire Incompatibility Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may re | sult |
|---|------|
|---|------|

| Special protective equipment a | 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. |
|--------------------------------|--|
| 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. Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| | <u>v</u> . |
|--------------|---|
| Minor Spills | Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. |
| 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. |

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

SECTION 7 Handling and storage

Precautions for safe handling

| Safe handling | Avoid all personal contact, including inhalation. |
|---------------|--|
| oare nanding | Mear protective clothing when risk of exposure occur |

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Use in a well-ventilated area.
 DO NOT allow clothing wet with material to stay in contact with skin

Other information

Store in original containers.
 Keep containers securely sealed.
 No smoking, naked lights or ignition sources.

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 | Esters react with acids to liberate heat along with alcohols and acids. Strong oxidising acids may cause a vigorous reaction with esters that is sufficiently exothermic to ignite the reaction products. Heat is also generated by the interaction of esters with caustic solutions. |

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---|---------------------|---|------------------------|------------------|------------------|-----------------------|
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | titanium dioxide | Titanium dioxide - Total dust | 15 mg/m3 | Not Available | Not Available | Not Available |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | titanium dioxide | Inert or Nuisance Dust: Respirable fraction | 5 mg/m3 / 15 mppcf | Not Available | Not Available | Not Available |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | titanium dioxide | Inert or Nuisance Dust: Total Dust | 15 mg/m3 / 50 mppcf | Not Available | Not Available | Not Available |
| US NIOSH Recommended Exposure Limits (RELs) | titanium dioxide | Titanium dioxide | Not Available | Not Available | Not Available | Ca; See Appendix A |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | Clorothanil | Particulates Not Otherwise Regulated (PNOR)- Total dust | 15 mg/m3 | Not Available | Not Available | Not Available |
| US OSHA Permissible Exposure Limits (PELs) Table Z-1 | Clorothanil | Particulates Not Otherwise Regulated (PNOR)- Respirable fraction | 5 mg/m3 | Not Available | Not Available | Not Available |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | Clorothanil | Inert or Nuisance Dust: Respirable fraction | 5 mg/m3 / 15 mppcf | Not Available | Not Available | Not Available |
| US OSHA Permissible Exposure Limits (PELs) Table Z-3 | Clorothanil | Inert or Nuisance Dust: Total Dust | 15 mg/m3 / 50 mppcf | Not Available | Not Available | Not Available |
| US NIOSH Recommended Exposure Limits (RELs) | Clorothanil | Particulates not otherwise regulated | Not Available | Not Available | Not Available | See Appendix D |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|---|------------|-----------|-------------|
| titanium dioxide | 30 mg/m3 | 330 mg/m3 | 2,000 mg/m3 |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | 13 mg/m3 | 140 mg/m3 | 840 mg/m3 |
| Clorothanil | 0.13 mg/m3 | 1.4 mg/m3 | 8.6 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|---|---------------|---------------|
| titanium dioxide | 5,000 mg/m3 | Not Available |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | Not Available | Not Available |
| 2,2,4-trimethyl-1,3-pentanediol diisobutyrate | Not Available | Not Available |
| Clorothanil | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|---|--|----------------------------------|
| 2,2,4-trimethyl-1,3-pentanediol diisobutyrate | E | ≤ 0.1 ppm |
| Notes: | Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health. | |

Exposure controls

| | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can |
|-------------------------|---|
| Appropriate engineering | be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. |
| controls | The basic types of engineering controls are: |
| | Process controls which involve changing the way a job activity or process is done to reduce the risk. |

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Personal protection Safety glasses with side shields. Eve and face protection Chemical goggles Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. Skin protection See Hand protection below Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: F The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. Hands/feet protection For esters ▶ Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. **Body protection** See Other protection below Figure 2 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 Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective Other protection 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, including gloves, boots and continuous-air supplied hood. Overalls. P.V.C apron. Barrier cream.

Respiratory protection

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

- ▶ 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

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Not Available | | |
|--|---------------|---|---------------|
| Physical state | Liquid | Relative density (Water = 1) | 9.7 |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | 8.5 | Decomposition temperature (°C) | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Available |
| 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 |

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| | I | | I |
|--------------------------|---------------|-----------------------|---------------|
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |
| Solubility in water | Immiscible | pH as a solution (1%) | Not Available |
| Vapour density (Air = 1) | Not Available | VOC g/L | 100 |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|------------------------------------|--|
| Chemical stability | Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 Toxicological information

Information on toxicological effects

| niormation on toxicological e | nects |
|-------------------------------|---|
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. The main effects of simple esters are irritation, stupor and insensibility. Headache, drowsiness, dizziness, coma and behavioural changes may occur. |
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. |
| Skin Contact | Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |
| Eye | This material can cause eye irritation and damage in some persons. |
| Chronic | Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There is sufficient evidence to suggest that this material directly causes cancer in humans. Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. |

| Elizabet Agraduat | TOXICITY | IRRITATION |
|----------------------|---------------|---------------|
| Fiberlock AfterShock | Not Available | Not Available |

titanium dioxide

| TOXICITY | IRRITATION |
|---|--|
| Inhalation (Rat)TCLo: 0.04 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] |
| Oral (Mouse)LD50; >10000 mg/kg *[2] | Skin (human): 0.3 mg /3D (int)-mild * |
| Oral (Mouse)TDLo: 0.0032 mg/kg ^[2] | Skin: no adverse effect observed (not irritating) ^[1] |
| Oral (Rat)LD50: >20000 mg/kg *[2] | |
| Oral (Rat)TDLo: 60000 mg/kg ^[2] | |

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate

| TOXICITY | IRRITATION |
|--|--|
| dermal (guinea pig) LD50: >19 mg/kg ^[2] | Eye: no adverse effect observed (not irritating) ^[1] |
| Oral (Rat) LD50: >3200 mg/kg ^[2] | Eyes - Moderate irritant * |
| | Skin - Slight irritant * |
| | Skin (rabbit): mild *** |
| | Skin: no adverse effect observed (not irritating) ^[1] |

| 2,2,4-trimethyl-1,3-pentanediol |
|---------------------------------|
| diisobutyrate |

| TOXICITY | IRRITATION |
|--|--|
| Dermal (rabbit) LD50: >2000 mg/kg ^[1] | Eye (rabbit): very slight** **[Eastman] *[Patty] |

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| | | I | m | |
|--|--|---|--|--|
| | Oral (Rat) LD50: >2000 mg/kg ^[1] | Eye: no adverse effect obs | | |
| | | Skin (guinea pig): 5000mg | | |
| | | Skin: no adverse effect ob | served (not irritating). | |
| | TOXICITY | | IRRITATION | |
| | Dermal (rabbit) LD50: >2000 mg/kg ^[2] | | Not Available | |
| Clorothanil | Inhalation(Rat) LC50: 0.078 mg/L4h ^[2] | | | |
| | Oral (Mouse) LD50; 3700 mg/kg ^[2] | | | |
| | | | | |
| Legend: | Value obtained from Europe ECHA Registered Sub specified data extracted from RTECS - Register of Tox | - | ined from manufacturer's SDS. Unless otherwise | |
| | | | | |
| Fiberlock AfterShock | Generally,linear and branched-chain alkyl esters are h most tissues throughout the body. Following hydrolysis Oral acute toxicity studies have been reported for 51 c acids. The very low oral acute toxicity of this group of Genotoxicity studies have been performed in vitro usir carboxylic acids: methyl acetate, butyl acetate, butyl s substances are not genotoxic. The JEFCA Committee concluded that the substances aliphatic acyclic primary alcohols and aliphatic linear s maximum levels of 200 mg/kg. | of the component alcohols and carbox of the 67 esters of aliphatic acyclic prinesters is demonstrated by oral LD50 oral the following esters of aliphatic acyclearate and the structurally related is the structural of the structural oral thick group would not present safet | ylic acids are metabolized mary alcohols and aliphatic linear saturated carboxylic values greater than 1850 mg/kg bw clic primary alcohols and aliphatic linear saturated vamyl formate and demonstrates that these y concerns at the current levels of intake the esters of | |
| titanium dioxide | * IUCLID Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation. Exposure to titanium dioxide is via inhalation, swallowing or skin contact. When inhaled, it may deposit in lung tissue and lymph nodes causing dysfunction of the lungs and immune system. Absorption by the stomach and intestines depends on the size of the particle. No significant acute toxicological data identified in literature search. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | | | |
| | WARNING: This substance has been classified by the | | | |
| 2,2,4-TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE | Not a skin sensitiser (guinea pig, Magnusson-Kligman) *** Ames Test: negative *** Micronucleus, mouse: negative *** Not mutagenic *** No effects on fertility or foetal development seen in the rat *** * [SWIFT] ** [Eastman] *** [Perstop] The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. | | | |
| 2,2,4-TRIMETHYL- 1,3-PENTANEDIOL DIISOBUTYRATE | NOAEL oral (rat), 103 days = 1% in diet *** NOEL oral (dog), 90 days = 1% in diet *** Mutagenicity/Genotoxicity Data: *** Chromosomal aberration assay: Negative (+/- activation) CHO/HGPRT assay: Negative (+/- activation) Salmonella-E.coli reverse mutation assay (Ames test): Negative (+/- activation) *,**,*** Various suppliers MSDS Sensitization Species:Guinea pig: Result: sensitizing Effects on foetal development: Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 300 mg/kg body weight Reproductive toxicity;Assessment: Some evidence of adverse effects on development, based on animal experiments. * Eastman Benzoflex 6000 Plasticiser For 2,2,4-trimethyl-1,3-pentanediol diisobutyrate (TXIB) Laboratory testing showed that TXIB does not cause genetic toxicity. It may damage the kidneys of developing animals but only at levels that also affect the adult. | | | |
| Fiberlock AfterShock & 2,2,4- | | | | |
| TRIMETHYL- 1,3-PENTANEDIOL DIISOBUTYRATE & Clorothanil | 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. | | | |
| titanium dioxide & Clorothanil | Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. | | | |
| titanium dioxide & 2,2,4- TRIMETHYL- 1,3-PENTANEDIOL MONOISOBUTYRATE & 2,2,4- TRIMETHYL- 1,3-PENTANEDIOL DIISOBUTYRATE | The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. | | | |
| Acute Toxicity | × | Carcinogenicity | * | |
| Skin Irritation/Corrosion | × | Reproductivity | ~ | |
| Serious Eye Damage/Irritation | × | STOT - Single Exposure | × | |
| Respiratory or Skin sensitisation | • | STOT - Repeated Exposure | × | |
| Mutagenicity | × | Aspiration Hazard | × | |

Legend:

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

SECTION 12 Ecological information

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| Fiberlock AfterShock | Endpoint | Test Duration (hr) | | Species | Value | | Source | |
|-------------------------------|---------------|--------------------|--|------------------------|-------------|----------------|------------|---------|
| FIDERIOCK ATTERSHOCK | Not Available | Not Available | | Not Available | Not Availab | le | Not Availa | able |
| | Endpoint | Test Duration (hr) | Specie | s | | Value | | Source |
| | BCF | 1008h | Fish | - | | <1.1-9.6 | | 7 |
| | LC50 | 96h | Fish | | | 1.85-3.06mg/l | | 4 |
| titanium dioxide | EC50 | 72h | Algae o | r other aquatic plants | 3 | 3.75-7.58mg | | 4 |
| | EC50 | 48h | Crustac | :ea | | 1.9mg/l | | 2 |
| | EC50 | 96h | Algae o | r other aquatic plants | S | 179.05mg/l | | 2 |
| | NOEC(ECx) | 504h | Crustac | cea | | 0.02mg/l | | 4 |
| | For two too | T D | 0 | | | W-L | 0 | |
| | Endpoint | Test Duration (hr) | | Species | | Value | Source | е |
| 2,4-trimethyl-1,3-pentanediol | NOEC(ECx) | 72h | Algae or other aquatic plants Algae or other aquatic plants | | 3.28mg/l 1 | | -: | |
| monoisobutyrate | EC50 | 72h | | r otner aquatic plants | . | 3 | | ailable |
| | LC50 | 96h | Fish | | | 16mg/l | _ | ailable |
| | EC50 | 48h | Crustacea > | | | >19mg/l 2 | | |
| | Endpoint | Test Duration (hr) | Spec | ies | | Value | | Source |
| | BCF | 1008h | Fish | | | 0.6-0.8 | | 7 |
| 2,4-trimethyl-1,3-pentanediol | NOEC(ECx) | 504h | Crustacea | | | 0.7mg/l | | 2 |
| diisobutyrate | LC50 | 96h | Fish | | | >1.55mg | g/l | 2 |
| | EC50 | 72h | Algae or other aquatic plants | | nts | >7.49mg/l | | 2 |
| | EC50 | 48h | Crust | tacea | | >1.46mg | g/I | 1 |
| | Endpoint | Test Duration (hr) | Species | | \ | /alue | | Source |
| | BCF | 1008h | Fish | | | :0.1-2.7 | | 7 |
| | LC50 | 96h | Fish | | | 0.0076mg/l | | 4 |
| Clorothanil | EC50 | 72h | Algae or | other aquatic plants | | 0.57mg/l | | 1 |
| | EC50 | 96h | | other aquatic plants | | 0.0019-0.01mg/ | ′I | 4 |
| | EC50 | 48h | Crustace | | | .059mg/l | | 1 |
| | NOEC(ECx) | 48h | Crustace | | | .032mg/l | | 1 |
| | _ , , | | | | | | | |

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Bioconcentration Data 8. Vendor Data

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---|-------------------------|------------------|
| titanium dioxide | HIGH | HIGH |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | LOW | LOW |
| 2,2,4-trimethyl-1,3-pentanediol diisobutyrate | HIGH | HIGH |
| Clorothanil | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|---|-----------------------|
| titanium dioxide | LOW (BCF = 10) |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | LOW (LogKOW = 2.9966) |
| 2,2,4-trimethyl-1,3-pentanediol diisobutyrate | LOW (BCF = 1) |
| Clorothanil | LOW (BCF = 125) |

Mobility in soil

| • | | | |
|------------|----------|--|--|
| | | | |
| Ingredient | Mobility | | |

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| Ingredient | Mobility |
|---|-------------------|
| titanium dioxide | LOW (KOC = 23.74) |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | LOW (KOC = 22.28) |
| 2,2,4-trimethyl-1,3-pentanediol diisobutyrate | LOW (KOC = 607.5) |
| Clorothanil | LOW (KOC = 2392) |

SECTION 13 Disposal considerations

Waste treatment methods

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.

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.

- 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.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.
- ► Bury or incinerate residue at an approved site.

SECTION 14 Transport information

Labels Required

Marine Pollutant NO

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

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

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

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

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

| Transport in bank in accordance with mark of Aimex V and the mode code | | |
|--|---------------|--|
| Product name | Group | |
| titanium dioxide | Not Available | |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | Not Available | |
| 2,2,4-trimethyl-1,3-pentanediol diisobutyrate | Not Available | |
| Clorothanil | Not Available | |

Transport in bulk in accordance with the ICG Code

| Product name | Ship Type |
|---|---------------|
| titanium dioxide | Not Available |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutyrate | Not Available |
| 2,2,4-trimethyl-1,3-pentanediol diisobutyrate | Not Available |
| Clorothanil | Not Available |

SECTION 15 Regulatory information

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

titanium dioxide is found on the following regulatory lists

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Chemical Footprint Project - Chemicals of High Concern List

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 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US NIOSH Carcinogen List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

2,2,4-trimethyl-1,3-pentanediol diisobutyrate is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US TSCA Chemical Substance Inventory - Interim List of Active Substances

Clorothanil is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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 2B: Possibly carcinogenic to humans

International WHO List of Proposed Occupational Exposure Limit (OEL) Values for Manufactured Nanomaterials (MNMS)

US - Alaska Air Quality Control - Concentrations Triggering an Air Quality Episode for Air Pollutants Other Than PM-2.5

US - California Proposition 65 - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US List of Active Substances Exempt from the TSCA Inventory Notifications (Active-Inactive) Rule

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US OSHA Permissible Exposure Limits (PELs) Table Z-3

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Federal Regulations: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: Harmful if swallowed or inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing before reuse. When applying with a sprayer, applicator should wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any R, P, N. or HE filter.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

| Flammable (Gases, Aerosols, Liquids, or Solids) | | |
|--|-----|--|
| Gas under pressure | | |
| Explosive | No | |
| Self-heating | No | |
| Pyrophoric (Liquid or Solid) | No | |
| Pyrophoric Gas | No | |
| Corrosive to metal | No | |
| Oxidizer (Liquid, Solid or Gas) | No | |
| Organic Peroxide | No | |
| Self-reactive | No | |
| In contact with water emits flammable gas | No | |
| Combustible Dust | No | |
| Carcinogenicity | Yes | |
| Acute toxicity (any route of exposure) | | |
| Reproductive toxicity | | |
| Skin Corrosion or Irritation | | |
| Respiratory or Skin Sensitization | | |
| Serious eye damage or eye irritation | | |
| Specific target organ toxicity (single or repeated exposure) | | |
| Aspiration Hazard | | |
| Germ cell mutagenicity | | |
| Simple Asphyxiant | | |
| Hazards Not Otherwise Classified | | |

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

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State Regulations

US. California Proposition 65



MARNING: This product can expose you to chemicals including titanium dioxide, Clorothanil, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

National Inventory Status

| National Inventory | Status | |
|--|--|--|
| Australia - AIIC / Australia Non-Industrial Use | Yes | |
| Canada - DSL | Yes | |
| Canada - NDSL | No | |
| 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 | No (Clorothanil) | |
| 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 01/25/2023 | |
|---------------------------------|--|
| Initial Date 01/25/2023 | |

SDS Version Summary

| Version | Date of Update | Sections Updated |
|---------|-------------------|--|
| 1.3 | 01/25/2023 | Acute Health (inhaled), Acute Health (swallowed), Appearance, Chronic Health, Classification, Environmental, Exposure Standard, Fire Fighter (fire/explosion hazard), Fire Fighter (fire fighting), Handling Procedure, Ingredients, Physical Properties, Storage (storage incompatibility), Storage (storage requirement) |

Other information

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.

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