

SAFETY DATA SHEET

Introfiant Arterial

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name Introfiant Arterial

Product number 105028

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

Identified uses Embalming Chemical

1.3. Details of the supplier of the safety data sheet

Supplier The MazWell Group Ltd.

Units 11/14-15 Ardglen Industrial Estate,

Whitchurch, Hampshire, RG28 7BB, United Kingdom +44 (0)1256-893883

+44 (0)1256-893868

enquiries@themazwellgroup.com

1.4. Emergency telephone number

Emergency telephone +44 (0)1256 893883 (Mon- Fri 9:00 am - 4:30 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam.

1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 Repr. 1B - H360FD STOT SE 2

- H371 STOT SE 3 - H335

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms









Signal word

Danger

Introfiant Arterial

Hazard statements H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H311+H331 Toxic in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360FD May damage fertility. May damage the unborn child.

H371 May cause damage to organs.

Precautionary statements P.

P201 Obtain special instructions before use.

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

smoking.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P311 Call a POISON CENTER/ doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.

Contains Formaldehyde, Methanol, Disodium tetraborate decahydrate

Supplementary precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe vapour/ spray. P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor. P308+P313 IF exposed or concerned: Get medical advice/ attention.

P312 Call a POISON CENTRE/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label).

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P362+P364 Take off contaminated clothing and wash it before reuse.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Formaldehyde		25 - <50%
CAS number: 50-00-0	EC number: 200-001-8	
Classification		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Muta. 2 - H341		
Carc. 1B - H350		
STOT SE 3 - H335		

 methanol
 5 - <10%</th>

 CAS number: 67-56-1
 EC number: 200-659-6
 REACH registration number: 01-2119433307-44-XXXX

 Voluntary disclosure.
 Classification

 Flam. Liq. 2 - H225
 Acute Tox. 3 - H301

 Acute Tox. 3 - H311
 Acute Tox. 3 - H331

Disodium tetraborate decahydrate

CAS number: 1330-43-4

EC number: 215-540-4

Classification

Eye Irrit. 2 - H319
Repr. 1B - H360FD

Propane-1,2-diol 1 - <2.5%

CAS number: 57-55-6 EC number: 200-338-0

Substance with National workplace exposure limits.

Classification
Not Classified

STOT SE 1 - H370

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. If breathing stops, provide artificial respiration. Get medical attention immediately.

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Ingestion Rinse nose and mouth with water. Do not induce vomiting unless under the direction of

medical personnel. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention immediately.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of

water. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aidersFirst aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Suspected of causing genetic defects. May cause cancer. The product contains a sensitising substance. May damage fertility or the unborn child. May cause

damage to organs.

Inhalation Chemical burns. May cause respiratory irritation. Symptoms following overexposure may

include the following: Headache. Nausea, vomiting.

Ingestion Causes burns. May cause stomach pain or vomiting. Ingestion of large amounts may cause

unconsciousness.

Skin contact Causes burns. Toxic in contact with skin. May cause an allergic skin reaction.

Eye contact Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss

of sight.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Very toxic gases or vapours. Vapours are heavier than air and may spread near ground and

travel a considerable distance to a source of ignition and flash back.

Hazardous combustion

products

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

5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Wear protective clothing as described in Section 8 of this safety data sheet. If ventilation is inadequate, suitable respiratory protection must be worn. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains and the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Eliminate all sources of ignition. Provide adequate ventilation. For personal protection, see Section 8. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Eye wash facilities and emergency shower must be available when handling this product. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Wash promptly if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect containers from damage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Formaldehyde

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³ Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³ Sk

Disodium tetraborate decahydrate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Propane-1,2-diol

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin.

methanol (CAS: 67-56-1)

DNEL Workers - Inhalation; Long term systemic effects, local effects: 260 mg/m³

Workers - Inhalation; Short term systemic effects, local effects: 260 mg/m³

Workers - Dermal; Long term systemic effects: 40 mg/kg/day Workers - Dermal; Short term systemic effects: 40 mg/kg/day

General population - Inhalation; Long term systemic effects, local effects: 50 mg/m³ General population - Inhalation; Short term systemic effects, local effects: 50 mg/m³

General population - Dermal; Long term systemic effects: 8 mg/kg/day General population - Dermal; Short term systemic effects: 8 mg/kg/day General population - Oral; Long term systemic effects: 8 mg/kg/day General population - Oral; Short term systemic effects: 8 mg/kg/day

PNEC Fresh water; 20.8 mg/l

Fresh water, Intermittent release; 1540 mg/l

marine water; 2.08 mg/l

STP; 100 mg/l

Sediment (Freshwater); 77 mg/kg Sediment (Marinewater); 7.7 mg/kg

Soil: 100 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Use explosion-proof general and local

exhaust ventilation.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for

eye and face protection should comply with European Standard EN166.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. To protect hands from chemicals,

gloves should comply with European Standard EN374.

Other skin and body

protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures Do not eat, drink or smoke when using this product. Eye wash facilities and emergency

shower must be available when handling this product. Wash promptly if skin becomes

contaminated.

Respiratory protection Respiratory protection must be used if the airborne contamination exceeds the recommended

occupational exposure limit. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

Environmental exposure

controls

Keep container tightly sealed when not in use. Residues and empty containers should be

taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid.

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ColourDark. Red.OdourPungent.

Odour threshold Not available.

pH (concentrated solution): 8.0-9.0

Melting point Not available.

Initial boiling point and range 90-92°C @ 760 mm Hg

Flash point 55°C Closed cup.

Evaporation rate Not available.

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 7 % Upper flammable/explosive limit: 73 %

Vapour pressure Not available.

Vapour density > 1

Relative density 1.08-1.09 @ 20°C

Solubility(ies) Soluble in water.

Partition coefficient Not available.

Auto-ignition temperature Not available.

Decomposition Temperature Not available.

Viscosity Not available.

Explosive properties Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

Volatility 96%

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

May polymerise. The following materials may react with the product: Strong oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

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Hazardous decomposition

products

Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 342.86

Acute toxicity - dermal

Notes (dermal LD₅₀) Toxic in contact with skin.

ATE dermal (mg/kg) 845.07

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Toxic if inhaled.

ATE inhalation (gases ppm) 1,971.83

ATE inhalation (vapours mg/l) 31.58

Skin corrosion/irritation

Animal data Corrosive to skin.

Serious eye damage/irritation

Serious eye damage/irritation Corrosivity to eyes is assumed.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitroSuspected of causing genetic defects.

Carcinogenicity

Carcinogenicity May cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility May damage fertility.

Reproductive toxicity -

development

May damage the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 2 - H371 May cause damage to organs . STOT SE 3 - H335 May cause respiratory

irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicological information on ingredients.

Formaldehyde

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Acute toxicity - oral

Notes (oral LD₅₀) Toxic if swallowed.

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Toxic in contact with skin.

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Toxic if inhaled.

ATE inhalation (gases

ppm)

700.0

Skin corrosion/irritation

Animal data Dose: 1 mL, 20 hours, Rabbit Erythema/eschar score: Moderate to severe

erythema (3). Oedema score: Moderate oedema - raised approximately 1 mm (3).

REACH dossier information. Corrosive to skin.

Serious eye damage/irritation

Serious eye

damage/irritation

Corrosive to skin. Corrosivity to eyes is assumed. Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Mouse: Not sensitising. REACH dossier information. Based on available data the

classification criteria are not met.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Sensitising. REACH dossier

information. Epidemiological studies have shown evidence of skin sensitisation.

Germ cell mutagenicity

Genotoxicity - in vitro DNA damage and/or repair: Positive. REACH dossier information. Suspected of

causing genetic defects.

Genotoxicity - in vivo DNA-protein cross-links (DPC): Positive. REACH dossier information. Suspected of

causing genetic defects.

Carcinogenicity

Carcinogenicity NOAEC 15 ppm, Inhalation, Mouse May cause cancer.

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

NTP carcinogenicity Known human carcinogen.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Developmental toxicity: - NOAEC: 10 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H335 May cause respiratory irritation.

Target organs Respiratory system, lungs

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 82 mg/kg/day, Oral, Rat REACH dossier information. Based on available

data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

methanol

Acute toxicity - oral

Notes (oral LD₅₀) International Programme on Chemical Safety (IPCS) (1997) Environmental Health

Criteria 196: Methanol. Geneva, World Health Organization. Toxic if swallowed.

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Converted acute toxicity point estimate (cATpE) Toxic if inhaled.

ATE inhalation (vapours

mg/l)

3.0

Skin corrosion/irritation

Animal data Dose: 2.5cm x 2.5cm, 20 hours, Rabbit Erythema/eschar score: No erythema (0).

Oedema score: No oedema (0). Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation

Dose: 0.05 ml, 24 hours, Rabbit Not irritating.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 1 - H370

Target organs Eyes Central nervous system

Disodium tetraborate decahydrate

Acute toxicity - oral

Notes (oral LD₅₀) REACH dossier information.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit REACH dossier information.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ >2.04 mg/l, Inhalation, Rat REACH dossier information.

Skin corrosion/irritation

Animal data Dose: 0.5g, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema

score: No oedema (0). REACH dossier information.

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Serious eye damage/irritation

Serious eye Dose: 0.08 mL, 14 days, Rabbit REACH dossier information.

damage/irritation
Skin sensitisation

Skin sensitisation Buehler test - Guinea pig: Not sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro DNA damage and/or repair: Negative. REACH dossier information.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information.

Carcinogenicity

Carcinogenicity NOAEL >5000 ppm, Oral, Mouse REACH dossier information.

Reproductive toxicity

Reproductive toxicity - Thre

Three-generation study - NOAEL 100 mg/kg/day, Oral, Rat F1 REACH dossier

information. May damage fertility.

Reproductive toxicity -

Developmental toxicity: - NOAEL: 55 mg/kg/day, Oral, Rat REACH dossier

information. May damage the unborn child.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 100 mg/kg/day, Oral, Rat REACH dossier information.

SECTION 12: Ecological information

development

fertility

12.1. Toxicity

Toxicity Aquatic toxicity is unlikely to occur. However, large or frequent spills may have hazardous

effects on the environment.

Ecological information on ingredients.

Formaldehyde

Toxicity Based on available data the classification criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 6.7 mg/l, Striped bass (Morone saxatilis)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 5.8 mg/l, Daphnia pulex

Acute toxicity - aquatic

plants

EC₅o, 72 hours: 3.48 mg/l, Scenedesmus subspicatus

methanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)

EC₅o, 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic

invertebrates

EC₅₀, 96 hours: 18260 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅o, 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata

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Acute toxicity - IC₅₀, 3 hours: >1000 mg/l, Activated sludge

microorganisms

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 200 hours: 7900 mg/l, Oryzias latipes (Red killifish)

life stage Weight of evidence.

Disodium tetraborate decahydrate

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 74 mg/l, Limanda limanda (common dab)

Acute toxicity - aquatic

invertebrates

LC₅₀, 96 hours: 147 mg/l, Legumia recta (Black sandshell mussel)

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 40.2 mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Formaldehyde

Persistence and

degradability

The product is biodegradable.

Phototransformation Water - DT₅₀: 1.7 days

Estimated value.

methanol

Phototransformation Air - DT₅₀ : 17.2 days

Biodegradation Water - Degradation (95%): 20 days

Water - Degradation (91%): 15 days Water - Degradation (88%): 10 days Water - Degradation (76%): 5 days The substance is readily biodegradable.

Disodium tetraborate decahydrate

Persistence and degradability

The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

Ecological information on ingredients.

Formaldehyde

Bioaccumulative potential BCF: <1, Litopenaeus stylirostris (blue shrimp):,

Partition coefficient log Pow: 0.35

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methanol

BCF: 4.5, Cyprinus carpio (Common carp) Bioaccumulative potential

Partition coefficient log Pow: -0.77

Disodium tetraborate decahydrate

BCF: 0.7-1.4, Crassostrea gigas (Pacific oyster) Bioaccumulative potential

Partition coefficient log Pow: -1.53

12.4. Mobility in soil

Mobility Mobile.

Ecological information on ingredients.

Formaldehyde

The product is soluble in water. Mobility

Adsorption/desorption

coefficient

- log Koc: 1.202 @ °C Estimated value.

Henry's law constant 0.034 Pa m³/mol @ 25°C

Surface tension 69.9 mN/m @ 25°C

methanol

Mobility Mobile.

Adsorption/desorption

coefficient

Soil - Koc: 0.13-0.61 @ 6°C

Henry's law constant 0.461 Pa m3/mol @ 25°C

Disodium tetraborate decahydrate

Soluble in water. Mobility

71 mN/m @ 23°C Surface tension

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

Ecological information on ingredients.

Formaldehyde

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

methanol

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Disodium tetraborate decahydrate

Results of PBT and vPvB This substance is not classified as PBT or vPvB according to current EU criteria. assessment

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion.

The packaging must be empty (drop-free when inverted). Dispose of contents/container in

accordance with national regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1198

UN No. (IMDG) 1198

UN No. (ICAO) 1198

UN No. (ADN) 1198

14.2. UN proper shipping name

Proper shipping name

FORMALDEHYDE SOLUTION, FLAMMABLE

(ADR/RID)

Proper shipping name (IMDG) FORMALDEHYDE SOLUTION, FLAMMABLE

Proper shipping name (ICAO) FORMALDEHYDE SOLUTION, FLAMMABLE

Proper shipping name (ADN) FORMALDEHYDE SOLUTION, FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID subsidiary risk 8

ADR/RID classification code FC

ADR/RID label 3

IMDG class 3

IMDG subsidiary risk 8

ICAO class/division 3

ICAO subsidiary risk 8

ADN class 3

ADN subsidiary risk 8

Transport labels





14.4. Packing group

ADR/RID packing group III

IMDG packing group

ICAO packing group

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-C

ADR transport category 3

Emergency Action Code •2W

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

38

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

$\underline{\textbf{15.1. Safety, health and environmental regulations/legislation specific for the substance or \underline{mixture}}$

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification abbreviations

and acronyms

Flam. Liq. = Flammable liquid Acute Tox. = Acute toxicity

Carc. = Carcinogenicity

Eye Dam. = Serious eye damage

Eye Irrit. = Eye irritation

Muta. = Germ cell mutagenicity Repr. = Reproductive toxicity Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation

STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure

Skin Sens. = Skin sensitisation

Training advice Only trained personnel should use this material.

Revision comments Revised classification.

Revision date 16/10/2018

Revision 7

Supersedes date 05/08/2016

SDS number 612

Hazard statements in full H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H335 May cause respiratory irritation. H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360FD May damage fertility. May damage the unborn child. H370 Causes damage to organs (Eyes, Central nervous system).

H371 May cause damage to organs.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.