

According to Regulation (EC) No 1907/2006

# T-WASH MORDANT SOLUTION



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

### 1.1. Product identifier

**Trade name**

T-WASH MORDANT SOLUTION

**UFI code**

3S20-20GE-N00Y-00U6

**Contains**

phosphoric acid ethanol

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

**Product type**

Paints and varnishes

**Relevant identified uses**

One-pack performance coatings

**Not suitable for use in**

Any other Purpose

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

**Manufacturer**

Castle Paints Ltd

Address

Cloncollig Ind Estate  
R35X993 Tullamore  
Ireland

Telephone

0579351583

Email

info@castlepaints.ie

**Email**

info@castlepaints.ie

### 1.4. Emergency telephone number

**Poison center/Additional emergency number**

+353 1 809 2566 - National Poisons Information Centre



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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*Classification according to Regulation (EC) No 1272/2008*

#### Classification

Skin corrosion, hazard category 1B

Serious eye damage, hazard category 1

Hazardous to the aquatic environment — Chronic hazard category 3

Flammable liquids, hazard category 3

#### Hazard statements

H226, H314, H318, H412

### 2.2. Label elements

*Labelling according to Regulation (EC) No 1272/2008*

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

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

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

P501 Dispose of contents/container to in accordance with local regulation.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

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

P260 Do not breathe dust/fumes/gas/mist/vapours/spray..

P280 Wear protective gloves/protective clothing/eye protection/face protection.

### 2.3. Other hazards

No data available



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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Note
ethanol	64-17-5 200-578-6 01-2119457610-43 603-002-00-5	≥10 - <15%	Flam. Liq. 2, Eye Irrit. 2	H225, H319 - -	[1] [2]
phosphoric acid	7664-38-2 231-633-2 01-2119485924-24 015-011-00-6	≥1 - <15%	Met. Corr. 1, Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1	H290, H302, H314, H318 - -	-
1-methoxy-2- propanol	107-98-2 203-539-1 01-2119457435-35 603-064-00-3	≥5 - <10%	Flam. Liq. 3, STOT SE 3 - narcosis	H226, H336 - -	-
Isopropyl alcohol	67-63-0 200-661-7 01-2119457558-25-0001 -	0 - <10%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 - narcosis	H225, H319, H336 - -	-
methanol	67-56-1 200-659-6 01-2119433307-44 603-001-00-X	≥0.25 - <1%	Flam. Liq. 2, Acute Tox. 3 - oral, Acute Tox. 3 - dermal, Acute Tox. 3 - inhalation, STOT SE 1	H225, H301, H311, H331, H370 - -	-
copper sulphate pentahydrate	7758-99-8 231-847-6 01-2119520566-40 029-023-00-4	0 - <1%	Acute Tox. 4 - oral, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1	H302, H318, H400, H410 M-acut=10 M-chro=1	Acute toxicity estimate Acute oral toxicity: 481 mg/kg Acute dermal toxicity: 2000.01 mg/kg

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

GENERAL INFORMATION; Provide General first aid, rest and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless of how minor they seem. First aid personnel must be aware of own risk during rescue.

#### Inhalation

INHALATION; Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort or breathing difficulties develop.



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## **Skin contact**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. SKIN CONTACT; Remove affected person from source of contamination. Remove contaminated clothing and shoes and wash before reuse. Wash exposed area with soap and water. Get medical attention if irritation develops.

## **Eye contact**

EYE CONTACT; Avoid Contamination of unaffected eye. Remove contact lenses if present and easy to do so. Hold eye lids open. Rinse with a gentle stream of water for at least 15 minutes. Seek medical attention.

## **Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. INGESTION; If this product is ingested, remove victim immediately from source of exposure. Provide fresh air, warmth and rest preferably in comfortable upright sitting position. Never give anything by mouth to an unconscious person. Rinse mouth out and drink plenty of water. Do not induce vomiting. Seek medical advice (provide label where possible)

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

The severity of the symptoms described will vary dependant on the concentration and the length of exposure. Causes damage to organs through prolonged or repeated exposure.

## **Inhalation**

Inhalation of high concentrations of vapours may cause drowsiness and dizziness. There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. May cause damage to organs through prolonged or repeated exposure to inhalation.

## **Skin contact**

Contact with skin may cause irritation. There may be irritation and redness at the site of contact. May cause an allergic skin reaction.

## **Eye contact**

Causes serious eye irritation, May cause redness, swelling, pain and tearing.

## **Ingestion**

May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration of the swallowed or vomited production can cause severe pulmonary complications.

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

IF exposed or concerned, get medical advice. Treat Symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

alcohol resistant foam Carbon dioxide Extinguishing powder Water mist

#### **Unsuitable extinguishing media**

High Volume Water Jet



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

Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses. May Produce Hazardous combustion products such as carbon monoxide, carbon dioxide and unknown hydrocarbons.

## 5.3. Advice for firefighters

### Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from a safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.

## Other

Fire-Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

Wear protective clothing as described in section 8 of this safety data sheet. Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition. Keep unnecessary and unprotected personnel from entering. Follow safe handling advice and personal protective equipment recommendations for normal use of product.

### 6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Protection Agency or other appropriate regulatory body.

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

Wear appropriate personal protective equipment as specified in section 8. Ventilate and evacuate the area. Eliminate all ignition sources. Stop leak if possible without risk. Cover drains. Absorb spillage with non-combustible absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitable labelled container. Wash thoroughly after dealing with a spillage.

### 6.4. Reference to other sections

Section 13: Disposal Considerations (non-mandatory) Section 8: Exposure Controls/Personal Protection



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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Preventive handling precautions

Ground/bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take precautionary measures against static discharge. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

#### General hygiene

Avoid contact with skin, eyes and clothes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Section 8: Exposure Controls/Personal Protection Hygiene Measures: Wash hands and/or face before breaks and at the end of shift. Do not eat, drink or smoke while using this product. Avoid contact with skin, eyes and clothing. Routinely wash/clean all work clothing and personal protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Always close containers tightly after the removal of product. Store in a well-ventilated place. Keep cool. Take care when re-opening already used containers.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2. Use only in accordance with these directions, Keep container tightly closed and sealed when not in use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Inhalation	950 mg/m <sup>3</sup>	Workers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Acute (short term) Inhalation	1900 mg/m <sup>3</sup>	Workers	Local
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Dermal	343 mg/kg bw/day	Workers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Inhalation	114 mg/m <sup>3</sup>	Consumers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Acute (short term) Inhalation	950 mg/m <sup>3</sup>	Consumers	Local
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Dermal	206 mg/kg bw/day	Consumers	Systemic
ethanol (64-17-5/200-578-6)	DNEL	Chronic (long term) Oral	87 mg/m <sup>3</sup>	Consumers	Systemic



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## PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
ethanol (64-17-5/200-578-6)	PNEC	Intermittent releases (freshwater)	0.96 mg/l
ethanol (64-17-5/200-578-6)	PNEC	Intermittent releases (marine water)	0.79 mg/l
ethanol (64-17-5/200-578-6)	PNEC	Sewage Treatment Plant	580 mg/l
ethanol (64-17-5/200-578-6)	PNEC	Sediment (freshwater)	3.6 mg/kg sediment dw
ethanol (64-17-5/200-578-6)	PNEC	Sediment (marine water)	2.9 mg/kg sediment dw
ethanol (64-17-5/200-578-6)	PNEC	Soil	0.63 mg/kg soil dry weight
ethanol (64-17-5/200-578-6)	PNEC	Oral (Secondary Poisoning)	0.72 mg/kg food

## 8.2. Exposure controls

### Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Personal Protective Equipment Symbols



### Eye / face protection

Use safety glasses to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU). For professional users: Tightly fitting safety goggles or face-shield may be required for applications producing spray or mist.



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## **Hand protection**

Selection of glove material depends on consideration of the penetration times, rates of diffusion and degradation and concentration specific to the workplace. Where hand contact with the product may occur use gloves approved to relevant standards (e.g. Europe: EN374). Gloves must be inspected prior to use. Suggested material: Neoprene /PVA >8 hours (breakthrough time). Consult manufacturer for specific medical advice on material. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique (without touching the gloves outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly.

## **Other skin protection**

Wear appropriate clothing to prevent any possibility of skin contact. For professional users: Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN943.

## **Respiratory protection**

Use in a well ventilated area. For professional users; where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143, and suitable respirator cartridges as a back up to engineering controls. Suggested filter type: ABEK (EN 14387). Consult manufacturer for specific advice. Where aerosols are in use, use self contained breathing apparatus with a type AX filter or appropriate combined filter (e.g. AX-P3), in compliance with EN 371. Other applications use filter type A/P (EN141). If the respirator is the sole means of protection, use a supplied air self contained breathing apparatus operated in positive pressure mode. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). Use respiratory protection as specified by an industrial hygienist or other qualified professional. Change filters frequently.

## **Other**

Hygiene Measures: Wash hands and/or face before breaks and at the end of shift. Do not eat, drink or smoke while using this product. Avoid contact with skin, eyes and clothing. Routinely wash/clean all work clothing and personal protective equipment. Process Conditions: Use only according to directions. Ensure that eye flushing systems and safety showers are located close-by in the work place.

## **SECTION 9: Physical and chemical properties**

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

#### **Physical state**

Liquid

#### **Colour**

BLUE

#### **Odour**

Hydrocarbons, aromatic



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## **Odour threshold**

No information available as testing has not been completed.

## **Melting point / freezing point**

No information available as testing has not been completed.

## **Boiling point or initial boiling point and boiling range**

No information available as testing has not been completed.

## **Flammability**

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

## **Lower and upper explosion limit**

not explosive according to EU A.14

## **Flash point**

> 23 °C

## **Auto-ignition temperature**

No information available as testing has not been completed.

## **Decomposition temperature**

No information available as testing has not been completed.

## **pH**

No information available as testing has not been completed.

## **Kinematic viscosity**

No data available

## **Solubility**

Immiscible

## **Partition coefficient n-octanol/water**

No information available as testing has not been completed.

## **Vapour pressure**

No data available

## **Density and/or relative density**

1

## **Relative vapour density**

No data available

## **Particle characteristics**

No data available



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## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reaction with: Strong Oxidising substances and acids.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No information available as testing has not been completed.

### 10.4. Conditions to avoid

Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from incompatibles such as oxidizing agents, acids, alkalis. Do not mix with other chemicals unless listed on directions.

### 10.5. Incompatible materials

Strong acid Oxidizing agent Reducing agent

### 10.6. Hazardous decomposition products

in combustion emits toxic fumes. Combustion products may include but are not limited to; oxides of carbon, unburned hydrocarbons.

## SECTION 11: Toxicological information

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

No Toxicological information for the overall finished product. Not classified based on available information.

#### **Skin corrosion/irritation**

No information available as testing has not been completed.

#### **Serious eye damage/irritation**

Causes serious eye irritation, May cause redness, swelling, pain and tearing.

#### **Respiratory or skin sensitisation**

Contact with skin may cause irritation. There may be irritation and redness at the site of contact. May cause an allergic skin reaction.

#### **Germ cell mutagenicity**

This product is not classified as a mutagen.

#### **Carcinogenicity**

This product is not classified as a carcinogen hazard.



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## **Repeated dose toxicity**

This product is not classified as a carcinogen hazard.

## **Reproductive toxicity**

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

## **STOT-single exposure**

The product is not classified as a single exposure specific target organ toxin.

## **STOT-repeated exposure**

This product is not classified as a repeat exposure specific target organ toxin.

## **Aspiration hazard**

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

## **11.2. Information on other hazards**

### **Endocrine disrupting properties**

The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **Acute toxicity**

No information available as testing has not been completed.

#### **Toxicity**

No information available as testing has not been completed.

#### **Aquatic**

No information available as testing has not been completed.

#### **Soil**

No information available as testing has not been completed.

#### **Acute fish toxicity**

No information available as testing has not been completed.

#### **Acute algae toxicity**

May cause long lasting harmful effects to aquatic life.

#### **Acute crustacean toxicity**

No information available as testing has not been completed.

#### **Micro-/macro organism toxicity**

No information available as testing has not been completed.

#### **Chronical toxicity**

No information available as testing has not been completed.



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## 12.2. Persistence and degradability

### Persistence and degradability

No information available as testing has not been completed.

### Decay/transformation

No information available as testing has not been completed.

## 12.3. Bioaccumulative potential

No information available as testing has not been completed.

## 12.4. Mobility in soil

### Mobility

Immiscible

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%

## 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal considerations

Waste treatment methods Dispose of waste and residues in accordance with local authority requirements and in accordance with all local, national and international regulations. For waste disposal, use a licenced industrial waste disposal agent.

#### Packaging

Dispose of this material and its container at hazardous or special waste collection point. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Since emptied containers contain product residue, follow label warnings even after container is emptied.

## SECTION 14: Transport information

### 14.1. UN number

1263

### 14.2. UN proper shipping name

#### ADR / RID / ADN proper shipping name

PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound)



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**IMDG proper shipping name**

Paint Related Material

**IATA proper shipping name**

Paint Related Material

## 14.3. Transport hazard class(es)

**Label**

ADR/RID/ADN



3



8

IMDG



3



8

**ADR / RID Class**

3

**ADR / RID Classification code**

F1

**ADR / RID hazard identification number**

30

**IMDG Class**

3

**ADN Class**

3

**ADN Class Code**

F1

## 14.4. Packing group

ADR/RID/ADN Packing Group III IMDG Packing Group III IATA Packing Group III

## 14.5. Environmental hazards

Not applicable

## 14.6. Special precautions for user

EMS; F-E, S-E Emergency Action Code; A3 A72 A192 Hazard group 30 Tunnel Restriction Code - (E) /D



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## 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### EU regulations

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Safety information according to Regulation (EC) No. 1907/2006 (REACH), Article 32

#### National regulations

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.



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## SECTION 16: Other information

### Phrase meaning

Skin Corr. 1B - Skin corrosion, hazard category 1B

Eye Dam. 1 - Serious eye damage, hazard category 1

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

Flam. Liq. 3 - Flammable liquids, hazard category 3

Met. Corr. 1 - Corrosive to metals, hazard category 1

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4

Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1

Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1

STOT SE 3 - narcosis - Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis

Flam. Liq. 2 - Flammable liquids, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

Acute Tox. 3 - oral - Acute toxicity, oral, hazard category 3

Acute Tox. 3 - dermal - Acute toxicity, dermal, hazard category 3

Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3

STOT SE 1 - Specific Target Organ Toxicity — Single exposure, hazard category 1

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H370 Causes damage to organs.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.