



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET

902 1K Etch Primer - Black

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

### 1.1 Product identifier

**Product name** : 902 1K Etch Primer - Black  
**SDS code** : 8025089  
7902P9550/5L

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

| Identified uses      |
|----------------------|
| Industrial use       |
| Uses advised against |
| All other uses       |

**Product use** : See Technical Data Sheet.

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

Cromadex  
Unit 5 Redwood Business Park  
Oldbury Road Smethwick  
West Midlands  
B66 1NJ  
Tel: +44 (0) 121 555 1500  
Fax: +44 (0) 121 555 6417

**e-mail address of person responsible for this SDS** : sdsfellinguk@akzonobel.com

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : +44 (0)344 892 0111

#### Supplier

**Telephone number** : +44 (0) 779 965 6086  
+44 (0)207 635 9191 (for doctors and hospitals)

**Hours of operation** : 24 hours

**Date of issue/Date of revision** : 20-1-2023  
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**AkzoNobel**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226  
Acute Tox. 4, H332  
Skin Irrit. 2, H315  
Eye Dam. 1, H318  
Skin Sens. 1, H317  
STOT SE 3, H335  
STOT SE 3, H336  
STOT RE 2, H373  
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapour.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Harmful if inhaled.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

#### Precautionary statements

- Prevention** : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapour. Wash hands thoroughly after handling.
- Response** : Get medical advice/attention if you feel unwell. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
- Storage** : Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients** : Reaction mass of ethylbenzene and xylene  
2-methoxy-1-methylethyl acetate  
butan-1-ol  
Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000  
Formaldehyde, solution
- Supplemental label elements** : Not applicable.

## SECTION 2: Hazards identification

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### Special packaging requirements

**Containers to be fitted with child-resistant fastenings** : Not applicable.

**Tactile warning of danger** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name  | Identifiers   | %         | Classification  | Specific Conc. Limits, M-factors and ATEs                        | Type    |
|--|---|-----------|---|--|---------|
| Reaction mass of ethylbenzene and xylene   | REACH #: 01-2119488216-32<br>EC: 905-588-0  | ≥25 - ≤50 | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 | ATE [Dermal] = 1100 mg/kg<br>ATE [Inhalation (gases)] = 5000 ppm | [1] [2] |
| 2-methoxy-1-methylethyl acetate  | REACH #: 01-2119475791-29<br>EC: 203-603-9<br>CAS: 108-65-6                       | ≥15 - ≤20 | Flam. Liq. 3, H226<br>STOT SE 3, H336   | -  | [1] [2] |
| butan-1-ol   | REACH #: 01-2119484630-38<br>EC: 200-751-6<br>CAS: 71-36-3<br>Index: 603-004-00-6 | ≥5 - ≤10  | Flam. Liq. 3, H226<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>STOT SE 3, H336   | ATE [Oral] = 500 mg/kg   | [1]     |
| Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000 | CAS: 25068-38-6   | ≥3 - ≤5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317   | -  | [1]     |
| 4-hydroxy-4-methylpentan-2-one   | REACH #: 01-2119473975-21<br>EC: 204-626-7<br>CAS: 123-42-2                       | ≥1 - ≤3   | Flam. Liq. 3, H226<br>Eye Irrit. 2, H319<br>Repr. 2, H361d (oral)<br>STOT SE 3, H335  | Eye Irrit. 2, H319:<br>C ≥ 10%                                   | [1]     |

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## SECTION 3: Composition/information on ingredients

|   |   |         |   |   |         |
|---|---|---------|---|---|---------|
| n-butyl acetate   | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1 | ≥1 - ≤3 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066   | -   | [1] [2] |
| 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated | CAS: 68002-25-5   | ≥1 - ≤3 | Aquatic Chronic 4, H413   | -   | [1]     |
| Phosphoric acid   | EC: 231-633-2<br>CAS: 7664-38-2<br>Index: 015-011-00-6                                | ≤1      | Skin Corr. 1B, H314   | Skin Corr. 1B, H314: C ≥ 25%<br>Skin Irrit. 2, H315: 10% ≤ C < 25%  | [1] [2] |
| Formaldehyde, solution  | EC: 200-001-8<br>CAS: 50-00-0<br>Index: 605-001-00-5                                  | ≤0.1    | Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Acute Tox. 3, H331<br>Skin Corr. 1B, H314<br>Skin Sens. 1, H317<br>Muta. 2, H341<br>Carc. 1B, H350<br>STOT SE 3, H335 | ATE [Oral] = 100 mg/kg<br>ATE [Dermal] = 300 mg/kg<br>ATE [Inhalation (vapours)] = 3 mg/l<br>Skin Corr. 1B, H314: C ≥ 25%<br>Skin Irrit. 2, H315: 5% ≤ C < 25%<br>Skin Sens. 1, H317: C ≥ 0.2%<br>STOT SE 3, H335: C ≥ 5% | [1] [2] |
|   |   |         | <b>See Section 16 for the full text of the H statements declared above.</b>   |   |         |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

#### Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

## SECTION 4: First aid measures

- medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol weight < 1000, formaldehyde. May produce an allergic reaction.

### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness

## SECTION 4: First aid measures

- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : 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 EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".



## SECTION 6: Accidental release measures

**6.2 Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### Seveso Directive - Reporting thresholds

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## SECTION 7: Handling and storage

### Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c      | 5000 tonne                      | 50000 tonne             |

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name                  | Exposure limit values  |
|--|--|
| Reaction mass of ethylbenzene and xylene | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b><br>STEL: 441 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes.<br>TWA: 220 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours. |
| 2-methoxy-1-methylethyl acetate          | <b>EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin.</b><br>STEL: 548 mg/m <sup>3</sup> 15 minutes.<br>TWA: 50 ppm 8 hours.<br>TWA: 274 mg/m <sup>3</sup> 8 hours.<br>STEL: 100 ppm 15 minutes. |
| butan-1-ol                               | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.</b><br>STEL: 154 mg/m <sup>3</sup> 15 minutes.<br>STEL: 50 ppm 15 minutes.   |
| 4-hydroxy-4-methylpentan-2-one           | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 362 mg/m <sup>3</sup> 15 minutes.<br>STEL: 75 ppm 15 minutes.<br>TWA: 241 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.                         |
| n-butyl acetate                          | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 966 mg/m <sup>3</sup> 15 minutes.<br>STEL: 200 ppm 15 minutes.<br>TWA: 724 mg/m <sup>3</sup> 8 hours.<br>TWA: 150 ppm 8 hours.                       |
| Phosphoric acid                          | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 2 mg/m <sup>3</sup> 15 minutes.<br>TWA: 1 mg/m <sup>3</sup> 8 hours.   |
| Formaldehyde, solution                   | <b>EH40/2005 WELs (United Kingdom (UK), 1/2020).</b><br>STEL: 2.5 mg/m <sup>3</sup> 15 minutes.<br>STEL: 2 ppm 15 minutes.<br>TWA: 2.5 mg/m <sup>3</sup> 8 hours.<br>TWA: 2 ppm 8 hours.                           |



## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

| Product/ingredient name                  | Type | Exposure              | Value                    | Population         | Effects  |
|--|------|-----------------------|--------------------------|--------------------|----------|
| Reaction mass of ethylbenzene and xylene | DNEL | Long term Oral        | 1.6 mg/kg bw/day         | General population | Systemic |
|  | DNEL | Long term Inhalation  | 14.8 mg/m <sup>3</sup>   | General population | Systemic |
|  | DNEL | Long term Inhalation  | 77 mg/m <sup>3</sup>     | Workers            | Systemic |
|  | DNEL | Long term Dermal      | 108 mg/kg bw/day         | General population | Systemic |
|  | DNEL | Long term Dermal      | 180 mg/kg bw/day         | Workers            | Systemic |
|  | DNEL | Short term Inhalation | 289 mg/m <sup>3</sup>    | Workers            | Local    |
|  | DNEL | Short term Inhalation | 289 mg/m <sup>3</sup>    | Workers            | Systemic |
| butan-1-ol                               | DNEL | Long term Oral        | 1.5625 mg/kg bw/day      | General population | Systemic |
|  | DNEL | Long term Dermal      | 3.125 mg/kg bw/day       | General population | Systemic |
|  | DNEL | Long term Inhalation  | 55.357 mg/m <sup>3</sup> | General population | Systemic |
|  | DNEL | Long term Inhalation  | 155 mg/m <sup>3</sup>    | General population | Local    |
| 4-hydroxy-4-methylpentan-2-one           | DNEL | Long term Inhalation  | 310 mg/m <sup>3</sup>    | Workers            | Local    |
|  | DNEL | Long term Oral        | 1.67 mg/kg bw/day        | General population | Systemic |
|  | DNEL | Long term Inhalation  | 5.8 mg/m <sup>3</sup>    | General population | Systemic |
|  | DNEL | Long term Inhalation  | 32.6 mg/m <sup>3</sup>   | Workers            | Systemic |
|  | DNEL | Long term Dermal      | 33 mg/kg bw/day          | General population | Systemic |
|  | DNEL | Short term Inhalation | 240 mg/m <sup>3</sup>    | Workers            | Local    |
| n-butyl acetate                          | DNEL | Long term Dermal      | 467 mg/kg bw/day         | Workers            | Systemic |
|  | DNEL | Short term Oral       | 2 mg/kg bw/day           | General population | Systemic |
|  | DNEL | Long term Oral        | 2 mg/kg bw/day           | General population | Systemic |
|  | DNEL | Long term Dermal      | 3.4 mg/kg bw/day         | General population | Systemic |
|  | DNEL | Short term Dermal     | 6 mg/kg bw/day           | General population | Systemic |

## SECTION 8: Exposure controls/personal protection

|                        |                  |                       |                          |                    |          |
|------------------------|------------------|-----------------------|--------------------------|--------------------|----------|
| Phosphoric acid        | DNEL             | Long term Dermal      | 7 mg/kg bw/day           | Workers            | Systemic |
|                        | DNEL             | Short term Dermal     | 11 mg/kg bw/day          | Workers            | Systemic |
|                        | DNEL             | Long term Inhalation  | 12 mg/m <sup>3</sup>     | General population | Systemic |
|                        | DNEL             | Long term Inhalation  | 35.7 mg/m <sup>3</sup>   | General population | Local    |
|                        | DNEL             | Long term Inhalation  | 48 mg/m <sup>3</sup>     | Workers            | Systemic |
|                        | DNEL             | Short term Inhalation | 300 mg/m <sup>3</sup>    | General population | Local    |
|                        | DNEL             | Short term Inhalation | 300 mg/m <sup>3</sup>    | General population | Systemic |
|                        | DNEL             | Long term Inhalation  | 300 mg/m <sup>3</sup>    | Workers            | Local    |
|                        | DNEL             | Short term Inhalation | 600 mg/m <sup>3</sup>    | Workers            | Local    |
|                        | DNEL             | Short term Inhalation | 600 mg/m <sup>3</sup>    | Workers            | Systemic |
|                        | DNEL             | Long term Oral        | 0.1 mg/kg bw/day         | General population | Systemic |
|                        | DNEL             | Long term Inhalation  | 0.36 mg/m <sup>3</sup>   | General population | Local    |
|                        | DNEL             | Long term Inhalation  | 1 mg/m <sup>3</sup>      | Workers            | Local    |
|                        | DNEL             | Short term Inhalation | 2 mg/m <sup>3</sup>      | Workers            | Local    |
| Formaldehyde, solution | DNEL             | Long term Inhalation  | 4.57 mg/m <sup>3</sup>   | General population | Systemic |
|                        | DNEL             | Long term Inhalation  | 10.7 mg/m <sup>3</sup>   | Workers            | Systemic |
|                        | DNEL             | Long term Dermal      | 0.012 mg/cm <sup>2</sup> | General population | Local    |
|                        | DNEL             | Long term Dermal      | 0.037 mg/cm <sup>2</sup> | Workers            | Local    |
|                        | DNEL             | Long term Inhalation  | 0.1 mg/m <sup>3</sup>    | General population | Local    |
|                        | DNEL             | Long term Inhalation  | 0.375 mg/m <sup>3</sup>  | Workers            | Local    |
|                        | DNEL             | Short term Inhalation | 0.75 mg/m <sup>3</sup>   | Workers            | Local    |
|                        | DNEL             | Long term Inhalation  | 3.2 mg/m <sup>3</sup>    | General population | Systemic |
|                        | DNEL             | Long term Oral        | 4.1 mg/kg bw/day         | General population | Systemic |
|                        | DNEL             | Long term Inhalation  | 9 mg/m <sup>3</sup>      | Workers            | Systemic |
| DNEL                   | Long term Dermal | 102 mg/kg bw/day      | General population       | Systemic           |          |
| DNEL                   | Long term Dermal | 240 mg/kg bw/day      | Workers                  | Systemic           |          |

### PNECs

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name        | Compartment Detail     | Value         | Method Detail            |
|--------------------------------|------------------------|---------------|--------------------------|
| 4-hydroxy-4-methylpentan-2-one | Fresh water            | 2 mg/l        | Assessment Factors       |
|                                | Marine water           | 0.2 mg/l      | Assessment Factors       |
|                                | Sewage Treatment Plant | 100 mg/l      | Assessment Factors       |
|                                | Fresh water sediment   | 7.4 mg/kg dwt | Equilibrium Partitioning |
|                                | Marine water sediment  | 0.74 mg/kg    | Equilibrium Partitioning |
|                                | Soil                   | 0.3 mg/kg dwt | Equilibrium Partitioning |

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness ≥ 0.12 mm.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

## SECTION 8: Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Liquid.
- Colour** : Black.
- Odour** : Solvent.
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit** : Not available.
- Flash point** :  Closed cup: 25°C (77°F) [Pensky-Martens]
- Auto-ignition temperature** :

| Ingredient name                                  | °C  | °F     | Method     |
|--|-----|--------|------------|
| <input checked="" type="checkbox"/> Acetaldehyde | 190 | 374    | ASTM E 659 |
| 2-methoxy-1-methylethyl acetate                  | 333 | 631.4  |            |
| butan-1-ol                                       | 355 | 671    | EU A.15    |
| n-butyl acetate                                  | 415 | 779    | EU A.15    |
| Formaldehyde, solution                           | 430 | 806    |            |
| Reaction mass of ethylbenzene and xylene         | 432 | 809.6  |            |
| methanol   | 455 | 851    | DIN 51794  |
| 4-hydroxy-4-methylpentan-2-one                   | 603 | 1117.4 |            |

- Decomposition temperature** : Not available.
- pH** :  Not available. [DIN EN 1262]
- Viscosity** :  Kinematic (room temperature): 156 mm<sup>2</sup>/s [DIN EN ISO 3219]  
Kinematic (40°C): 160 mm<sup>2</sup>/s [DIN EN ISO 3219]

## SECTION 9: Physical and chemical properties

**Solubility(ies)** :

| Media      | Result                      |
|------------|-----------------------------|
| Cold water | Not soluble [OESO (TG 105)] |

**Partition coefficient: n-octanol/ water** : Not applicable.

**Vapour pressure** :

| Ingredient name                          | Vapour Pressure at 20°C |        |                | Vapour pressure at 50°C |     |        |
|--|-------------------------|--------|----------------|-------------------------|-----|--------|
|  | mm Hg                   | kPa    | Method         | mm Hg                   | kPa | Method |
| Methanol                                 | 126.96                  | 16.9   |                |                         |     |        |
| butyraldehyde                            | 108.01                  | 14.4   | OECD 104       |                         |     |        |
| n-butyl acetate                          | 11.25                   | 1.5    | DIN EN 13016-2 |                         |     |        |
| butan-1-ol                               | <7.5                    | <1     | DIN EN 13016-2 |                         |     |        |
| Reaction mass of ethylbenzene and xylene | 6.7                     | 0.89   |                |                         |     |        |
| 2-methoxy-1-methylethyl acetate          | 2.7                     | 0.36   |                |                         |     |        |
| Formaldehyde, solution                   | 1                       | 0.13   |                |                         |     |        |
| 4-hydroxy-4-methylpentan-2-one           | 0.81                    | 0.11   |                |                         |     |        |
| Phosphoric acid                          | 0.03                    | 0.004  |                |                         |     |        |
| 2,6-di-tert-butyl-p-cresol               | 0.01                    | 0.0013 |                |                         |     |        |

**Density** : 0.974 g/cm<sup>3</sup> [DIN EN ISO 2811-1]

**Vapour density** : Not available.

### Particle characteristics

**Median particle size** : Not applicable.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                             | Result                 | Species    | Dose                    | Exposure  |
|---|------------------------|------------|-------------------------|-----------|
| Reaction mass of ethylbenzene and xylene butan-1-ol | LC50 Inhalation Gas.   | Rat        | 5000 ppm                | 4 hours   |
|   | LC50 Inhalation Vapour | Rat        | 24000 mg/m <sup>3</sup> | 4 hours   |
|   | LD50 Dermal            | Rabbit     | 3400 mg/kg              | -         |
|   | LD50 Intraperitoneal   | Mouse      | 254 mg/kg               | -         |
|   | LD50 Intraperitoneal   | Rat        | 200 mg/kg               | -         |
|   | LD50 Intravenous       | Mouse      | 377 mg/kg               | -         |
|   | LD50 Intravenous       | Rat        | 310 mg/kg               | -         |
|   | LD50 Oral              | Mouse      | 100 mg/kg               | -         |
|   | LD50 Oral              | Rabbit     | 3484 mg/kg              | -         |
|   | LD50 Oral              | Rabbit     | 3400 mg/kg              | -         |
|   | LD50 Oral              | Rat        | 0.79 g/kg               | -         |
|   | LD50 Oral              | Rat        | 4.36 g/kg               | -         |
|   | LD50 Oral              | Rat        | 790 mg/kg               | -         |
|   | LD50 Subcutaneous      | Mouse      | 3200 mg/kg              | -         |
| 4-hydroxy-4-methylpentan-2-one                      | LD50 Dermal            | Rabbit     | 13500 mg/kg             | -         |
|   | LD50 Intraperitoneal   | Mouse      | 933 mg/kg               | -         |
| n-butyl acetate                                     | LD50 Oral              | Mouse      | 3950 mg/kg              | -         |
|   | LD50 Oral              | Mouse      | 3000 mg/kg              | -         |
|   | LD50 Oral              | Rat        | 2520 mg/kg              | -         |
|   | LD50 Oral              | Rat        | 4000 mg/kg              | -         |
|   | LC50 Inhalation Gas.   | Rat        | 390 ppm                 | 4 hours   |
|   | LC50 Inhalation Vapour | Mouse      | 6 g/m <sup>3</sup>      | 2 hours   |
| Phosphoric acid                                     | LD50 Dermal            | Rabbit     | >17600 mg/kg            | -         |
|   | LD50 Intraperitoneal   | Mouse      | 1230 mg/kg              | -         |
|   | LD50 Oral              | Guinea pig | 4700 mg/kg              | -         |
|   | LD50 Oral              | Mouse      | 6 g/kg                  | -         |
|   | LD50 Oral              | Rabbit     | 3200 mg/kg              | -         |
|   | LD50 Oral              | Rat        | 10768 mg/kg             | -         |
|   | LD50 Oral              | Mouse      | 1.25 g/kg               | -         |
|   | LD50 Oral              | Rat        | 1.25 g/kg               | -         |
| Formaldehyde, solution                              | LC50 Inhalation Gas.   | Rat        | 815 ppm                 | 0.5 hours |
|   | LC50 Inhalation Gas.   | Rat        | 250 ppm                 | 2 hours   |
|   | LC50 Inhalation Gas.   | Rat        | 250 ppm                 | 4 hours   |
|   | LC50 Inhalation Vapour | Mouse      | 505 mg/m <sup>3</sup>   | 2 hours   |
|   | LC50 Inhalation Vapour | Mouse      | 454 mg/m <sup>3</sup>   | 4 hours   |
|   | LC50 Inhalation Vapour | Rat        | 578 mg/m <sup>3</sup>   | 2 hours   |
|   | LD50 Dermal            | Rabbit     | 270 mg/kg               | -         |
|   | LD50 Dermal            | Rabbit     | 270 uL/kg               | -         |
|   | LD50 Intravenous       | Rat        | 87 mg/kg                | -         |
|   | LD50 Oral              | Guinea pig | 260 mg/kg               | -         |
|   | LD50 Oral              | Mouse      | 42 mg/kg                | -         |
|   | LD50 Oral              | Mouse      | 385 mg/kg               | -         |
|   | LD50 Oral              | Mouse      | 500 mg/kg               | -         |
|   | LD50 Oral              | Rat        | 100 mg/kg               | -         |
|   | LD50 Oral              | Rat        | 500 mg/kg               | -         |
|   | LD50 Subcutaneous      | Mouse      | 300 mg/kg               | -         |
|   | LD50 Subcutaneous      | Mouse      | 300 mg/kg               | -         |
| LD50 Subcutaneous                                   | Rat                    | 0.42 g/kg  | -                       |           |
| LD50 Subcutaneous                                   | Rat                    | 420 mg/kg  | -                       |           |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

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## SECTION 11: Toxicological information

| Product/ingredient name                  | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| 2/7902P9550/EU 902 ETCH PRIMER BLACK     | 5350.2       | 2540.7         | 11548.6                  | N/A                         | N/A                                 |
| Reaction mass of ethylbenzene and xylene | N/A          | 1100           | 5000                     | N/A                         | N/A                                 |
| butan-1-ol                               | 500          | N/A            | N/A                      | N/A                         | N/A                                 |
| formaldehyde                             | 100          | 300            | N/A                      | 3                           | N/A                                 |

### Irritation/Corrosion

| Product/ingredient name                  | Result                   | Species | Score | Exposure        | Observation |
|--|--------------------------|---------|-------|-----------------|-------------|
| Reaction mass of ethylbenzene and xylene | Eyes - Mild irritant     | Rabbit  | -     | 87 mg           | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg   | -           |
|  | Skin - Mild irritant     | Rat     | -     | 8 hours 60 UI   | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 100 %           | -           |
| butan-1-ol                               | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 0.005 MI        | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 1.62 mg         | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |
| 4-hydroxy-4-methylpentan-2-one           | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 mg  | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 100 UI | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 20 mg           | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 500 mg          | -           |
| n-butyl acetate                          | Eyes - Moderate irritant | Rabbit  | -     | 100 mg          | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 10 mg           | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 37 %            | -           |
| Formaldehyde, solution                   | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 750 ug | -           |
|  | Eyes - Severe irritant   | Rabbit  | -     | 750 ug          | -           |
|  | Skin - Mild irritant     | Rabbit  | -     | 540 mg          | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 50 mg  | -           |
|  | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |
|  | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2 mg   | -           |

**Conclusion/Summary** : Not available.

### Sensitisation

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

## SECTION 11: Toxicological information

| Product/ingredient name                  | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| Reaction mass of ethylbenzene and xylene | Category 3 | -                 | Respiratory tract irritation |
| 2-methoxy-1-methylethyl acetate          | Category 3 | -                 | Narcotic effects             |
| butan-1-ol                               | Category 3 | -                 | Respiratory tract irritation |
| 4-hydroxy-4-methylpentan-2-one           | Category 3 | -                 | Narcotic effects             |
| n-butyl acetate                          | Category 3 | -                 | Respiratory tract irritation |
| Formaldehyde, solution                   | Category 3 | -                 | Narcotic effects             |
|  |            |                   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name                  | Category   | Route of exposure | Target organs |
|--|------------|-------------------|---------------|
| Reaction mass of ethylbenzene and xylene | Category 2 | -                 | -             |

### Aspiration hazard

| Product/ingredient name                  | Result                         |
|--|--------------------------------|
| Reaction mass of ethylbenzene and xylene | ASPIRATION HAZARD - Category 1 |

**Information on likely routes of exposure** : Not available.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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## SECTION 11: Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

| Product/ingredient name                             | Result                               | Species  | Exposure |
|---|--------------------------------------|--|----------|
| Reaction mass of ethylbenzene and xylene butan-1-ol | Acute LC50 13400 µg/l Fresh water    | Fish - Pimephales promelas   | 96 hours |
|   | Acute EC50 1983 mg/l Fresh water     | Daphnia - Daphnia magna  | 48 hours |
|   | Acute LC50 2300000 µg/l Marine water | Fish - Alburnus alburnus   | 96 hours |
|   | Acute LC50 1910000 µg/l Fresh water  | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| 4-hydroxy-4-methylpentan-2-one                      | Acute LC50 1940000 µg/l Fresh water  | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
|   | Acute LC50 1730000 µg/l Fresh water  | Fish - Pimephales promelas   | 96 hours |
| n-butyl acetate                                     | Acute LC50 420000 µg/l Fresh water   | Fish - Lepomis macrochirus   | 96 hours |
|   | Acute LC50 420000 µg/l Marine water  | Fish - Menidia beryllina   | 96 hours |
|   | Acute LC50 32 mg/l Marine water      | Crustaceans - Artemia salina   | 48 hours |
|   | Acute LC50 62000 µg/l Fresh water    | Fish - Danio rerio   | 96 hours |
|   | Acute LC50 100000 µg/l Fresh water   | Fish - Lepomis macrochirus   | 96 hours |
|   | Acute LC50 185000 µg/l Marine water  | Fish - Menidia beryllina   | 96 hours |
| Phosphoric acid                                     | Acute LC50 18000 µg/l Fresh water    | Fish - Pimephales promelas   | 96 hours |
|   | Acute EC50 105 ppm Fresh water       | Daphnia - Daphnia magna  | 48 hours |

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## SECTION 12: Ecological information

|                                      |   |  |          |
|--------------------------------------|---|--|----------|
| Formaldehyde, solution               | Acute LC50 138 ppm Fresh water                        | Fish - Gambusia affinis - Adult                              | 96 hours |
|                                      | Acute LC50 60 ppm Fresh water                         | Fish - Lepomis macrochirus                                   | 96 hours |
|                                      | Acute LC50 87 ppm Fresh water                         | Fish - Oncorhynchus mykiss                                   | 96 hours |
|                                      | Acute EC50 3.48 mg/l Fresh water                      | Algae - Desmodesmus subspicatus                              | 72 hours |
|                                      | Acute EC50 3.54 mg/l Fresh water                      | Algae - Desmodesmus subspicatus                              | 72 hours |
|                                      | Acute EC50 3.05 mg/l Marine water                     | Algae - Isochrysis galbana - Exponential growth phase        | 96 hours |
|                                      | Acute EC50 3.29 mg/l Marine water                     | Algae - Phaeodactylum tricornutum - Exponential growth phase | 96 hours |
|                                      | Acute EC50 0.788 mg/l Marine water                    | Algae - Ulva pertusa   | 96 hours |
|                                      | Acute EC50 12.98 mg/l Fresh water                     | Crustaceans - Ceriodaphnia dubia - Neonate                   | 48 hours |
|                                      | Acute EC50 12.98 mg/l Fresh water                     | Crustaceans - Ceriodaphnia dubia - Neonate                   | 48 hours |
|                                      | Acute EC50 10.14 mg/l Fresh water                     | Daphnia - Daphnia magna                                      | 48 hours |
|                                      | Acute EC50 3.26 mg/l Fresh water                      | Daphnia - Daphnia magna - Embryo                             | 48 hours |
|                                      | Acute EC50 14.6 ppm Fresh water                       | Daphnia - Daphnia magna                                      | 48 hours |
|                                      | Acute EC50 14000 µg/l Fresh water                     | Daphnia - Daphnia magna                                      | 48 hours |
|                                      | Acute EC50 5800 µg/l Fresh water                      | Daphnia - Daphnia pulex - Neonate                            | 48 hours |
|                                      | Acute LC50 1265 ul/L Marine water                     | Crustaceans - Artemia sp.                                    | 48 hours |
|                                      | Acute LC50 1170 ul/L Marine water                     | Crustaceans - Artemia sp.                                    | 48 hours |
|                                      | Acute LC50 1299 ul/L Marine water                     | Crustaceans - Artemia sp.                                    | 48 hours |
|                                      | Acute LC50 1.79 ppm Fresh water                       | Fish - Lepomis macrochirus                                   | 96 hours |
|                                      | Acute LC50 1.51 ppm Fresh water                       | Fish - Lepomis macrochirus                                   | 96 hours |
|                                      | Acute LC50 4960 µg/l Fresh water                      | Fish - Morone saxatilis - Fingerling                         | 96 hours |
|                                      | Acute LC50 2.24 ppm Fresh water                       | Fish - Oncorhynchus mykiss                                   | 96 hours |
|                                      | Acute LC50 1.41 ppm Fresh water                       | Fish - Oncorhynchus mykiss                                   | 96 hours |
| Chronic NOEC 0.005 mg/l Marine water | Algae - Isochrysis galbana - Exponential growth phase | 96 hours   |          |
| Chronic NOEC 1000 µg/l Marine water  | Algae - Phyllospora comosa - Embryo                   | 96 hours   |          |
| Chronic NOEC 0.438 mg/l Marine water | Algae - Ulva pertusa                                  | 96 hours   |          |
| Chronic NOEC 953.9 ppm Fresh water   | Fish - Oncorhynchus tshawytscha - Egg                 | 43 days  |          |
| Chronic NOEC 1.56 mg/l Fresh water   | Fish - Oreochromis niloticus - Fingerling             | 12 weeks   |          |

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

## SECTION 12: Ecological information

| Product/ingredient name                  | LogP <sub>ow</sub> | BCF         | Potential |
|--|--------------------|-------------|-----------|
| Reaction mass of ethylbenzene and xylene | 3.12               | 8.1 to 25.9 | low       |
| 2-methoxy-1-methylethyl acetate          | 1.2                | -           | low       |
| butan-1-ol                               | 1                  | -           | low       |
| 4-hydroxy-4-methylpentan-2-one           | -0.14 to 1.03      | -           | low       |
| n-butyl acetate                          | 2.3                | -           | low       |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

**Disposal considerations** : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

#### European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

| Waste code    | Waste designation   |
|---------------|---|
| EWC 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

#### Packaging




**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 13: Disposal considerations

**Disposal considerations** : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.  
Empty containers must be scrapped or reconditioned.  
Dispose of containers contaminated by the product in accordance with local or national legal provisions.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

|                                 | ADR/RID   | IMDG  | IATA  |
|---------------------------------|---|---|---|
| 14.1 UN number or ID number     | UN1263  | UN1263  | UN1263  |
| 14.2 UN proper shipping name    | PAINT   | PAINT   | PAINT   |
| 14.3 Transport hazard class(es) | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group              | III   | III   | III   |
| 14.5 Environmental hazards      | No.   | No.   | No.   |

### Additional information

**ADR/RID** : **Tunnel code** (D/E)  
**IMDG** : **Emergency schedules** F-E, \_S-E\_  
**IMDG Code Segregation group** SGG1 - Acids

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments** : Not applicable.

## SECTION 15: Regulatory information

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

### UK (GB) /REACH

#### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.



## SECTION 15: Regulatory information

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### Other EU regulations

**VOC** : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

**VOC for Ready-for-Use Mixture** :  Not available.

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed

**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

| Category |
|----------|
| P5c      |

### National regulations

**Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

| Product/ingredient name                                    | List name                                  | Name on list           | Classification | Notes |
|--|--|------------------------|----------------|-------|
| <input checked="" type="checkbox"/> Formaldehyde, solution | UK Occupational Exposure Limits EH40 - WEL | formaldehyde; methanal | Carc.          | -     |

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## SECTION 15: Regulatory information

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals


Not listed.

### Inventory list

Eurasian Economic Union :  Russian Federation inventory: Not determined.

**15.2 Chemical safety assessment** : No Chemical Safety Assessment has been carried out.


## SECTION 16: Other information

 Indicates information that has changed from previously issued version.


### **Abbreviations and acronyms**

: ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 SGG = Segregation Group  
 vPvB = Very Persistent and Very Bioaccumulative

### **Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

| Classification  | Justification   |
|---|---|
|  Flam. Liq. 3, H226<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method |

### **Full text of abbreviated H statements**

|  |  |
|--|--|
|  H225<br>H226<br>H301<br>H302<br>H304<br>H311<br>H312<br>H314<br>H315<br>H317<br>H318<br>H319<br>H331<br>H332<br>H335<br>H336<br>H341<br>H350 | Highly flammable liquid and vapour.<br>Flammable liquid and vapour.<br>Toxic if swallowed.<br>Harmful if swallowed.<br>May be fatal if swallowed and enters airways.<br>Toxic in contact with skin.<br>Harmful in contact with skin.<br>Causes severe skin burns and eye damage.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>Causes serious eye irritation.<br>Toxic if inhaled.<br>Harmful if inhaled.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.<br>Suspected of causing genetic defects.<br>May cause cancer. |
|--|--|

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## SECTION 16: Other information

|                        |  |
|------------------------|--|
| H361d<br>H370<br>H373  | Suspected of damaging the unborn child.<br>Causes damage to organs.<br>May cause damage to organs through prolonged or repeated exposure.                              |
| H412<br>H413<br>EUH066 | Harmful to aquatic life with long lasting effects.<br>May cause long lasting harmful effects to aquatic life.<br>Repeated exposure may cause skin dryness or cracking. |

### Full text of classifications [CLP/GHS]

|                   |   |
|-------------------|---|
| Acute Tox. 3      | ACUTE TOXICITY - Category 3                                     |
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                     |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                 |
| Aquatic Chronic 4 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4                 |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                  |
| Carc. 1B          | CARCINOGENICITY - Category 1B                                   |
| Eye Dam. 1        | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                  |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                  |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                  |
| Flam. Liq. 3      | FLAMMABLE LIQUIDS - Category 3                                  |
| Muta. 2           | GERM CELL MUTAGENICITY - Category 2                             |
| Repr. 2           | REPRODUCTIVE TOXICITY - Category 2                              |
| Skin Corr. 1B     | SKIN CORROSION/IRRITATION - Category 1B                         |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                          |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                                 |
| STOT RE 2         | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 1         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1   |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3   |

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### Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758**

*902 1K Etch Primer - Black*

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