SECTION 1: Identification of the substance/mixture and of the Company

Product identifier

Trade name: PrimaVALUE Resin [Standard, Tough, Flex, Water washable]

Other means of identification

Synonyms: No information available

Recommended use of the chemical and restrictions on use

Recommended use: Material for 3D printing

Uses advised against: No information available

Details of the supplier of the safety data sheet

Importer: Prima Printer Nordic AB
Street/POB-No.: Kantyxegatan 25 F
Postal Code, city: SE 213 76 Malmö, SWEDEN
WWW: www.primacreator.com
E-mail: info@primacreator.com
Telephone: + 46 40 684 97 90

Emergency telephone number
+ 46 40 684 97 90

SECTION 2: Hazards identification

GHS classification

Acute toxicity - Oral Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Skin sensitization Category 1
Specific target organ toxicity (repeated exposure) Category 2
Chronic aquatic toxicity Category 3

Label elements

Symbols/Pictograms
Signal word: Danger
Hazard statements:
- H302 – Harmful if swallowed.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
H317 - May cause an allergic skin reaction.
H373 - May cause damage to organs through prolonged or repeated exposure.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P273 - Avoid release to the environment.

Response
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P314 - Get medical advice/attention if you feel unwell.

Storage
No information available.

Disposal
P501 - Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)
No information available.

Unknown acute toxicity
No information available.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name/Nature/Mixture</th>
<th>CAS number</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyurethane acrylate</td>
<td>-</td>
<td>19 - 21</td>
</tr>
<tr>
<td>Morpholine, 4-(1-oxo-2-propenyl)-</td>
<td>5117-12-4</td>
<td>42 - 44</td>
</tr>
<tr>
<td>Tripropylene glycol diacrylate</td>
<td>42978-66-5</td>
<td>13 - 15</td>
</tr>
<tr>
<td>Ethoxylated trimethylolpropane triacrylate</td>
<td>28961-43-5</td>
<td>19 - 21</td>
</tr>
<tr>
<td>Phosphine oxide, phenylbis(2,4,6-trime thylbenzoyl)</td>
<td>162881-26-7</td>
<td>2.3 - 2.7</td>
</tr>
<tr>
<td>4-Methoxyphenol</td>
<td>150-76-5</td>
<td>0.2 - 0.6</td>
</tr>
</tbody>
</table>
SECTION 4: First Aid Measures

Description of first aid measures

General advice  Remove contaminated clothing and shoes. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray. In the case of skin irritation or allergic reactions see a physician. If symptoms persist, call a physician.

Inhalation  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin contact  Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion  Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed
Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Fire-fighting Measures

Extinguishing media

Suitable extinguishing media  Foam, dry chemical, water fog or CO2.

Unsuitable extinguishing media  High volume water jet.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon oxides, nitrogen oxides, phosphorous oxides.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out. Evacuate personnel to safe areas.
SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Evacuate personnel to safe areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash thoroughly after handling.

Methods and material for containment and cleaning up
Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

SECTION 7: Handling And Storage

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not breathe mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

Section 8: Exposure Controls/Personal Protection

Control parameters

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>Denmark</th>
<th>European Union</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Methoxyphenol (CAS #: 150-76-5)</td>
<td>TWA: 5 mg/m³ (vacated) TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Latvia</td>
<td>France</td>
<td>Finland</td>
<td>Germany</td>
<td>Italy</td>
</tr>
<tr>
<td>4-Methoxyphenol (CAS #: 150-76-5)</td>
<td>-</td>
<td>TWA: 5 mg/m³</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Poland</td>
<td>Portugal</td>
<td>Spain</td>
<td>Switzerland</td>
<td>Netherlands</td>
</tr>
<tr>
<td>4-Methoxyphenol (CAS #: 150-76-5)</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chemical name</td>
<td>Norway</td>
<td>United Kingdom</td>
<td>Australia</td>
<td>Austria</td>
<td>Belgium</td>
</tr>
<tr>
<td>4-Methoxyphenol (CAS #: 150-76-5)</td>
<td>TWA: 5 mg/m³ STEL: 5 mg/m³</td>
<td>-</td>
<td>TWA: 5 mg/m³ STEL: 5 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition.

Individual protection measures, such as personal protective equipment
Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand protection Wear protective gloves.
Eye/face protection Wear safety glasses with side shields (or goggles).
Skin and body protection Wear suitable protective clothing.

SECTION 9: Physical And Chemical Properties
Information on basic physical and chemical properties
Appearance Liquid
Color Transparent
Odor Odorless
Odor threshold Not determined
pH Not determined
Melting point/freezing point Not determined
Boiling point / boiling range Not determined
Flash point Not applicable
Evaporation rate Not determined
Flammability (solid, gas) Not flammable
Flammability limit in air Not applicable
Vapor pressure Not determined
Vapor density Not applicable
Density Not determined
Relative density Not determined
Bulk density Not determined
Specific gravity Not determined
Water solubility Not determined
Partition coefficient (LogPow) Not determined
Autoignition temperature Not applicable
Decomposition temperature Not determined
Kinematic viscosity Not determined
Dynamic viscosity Not determined
Explosive properties Not an explosive
Oxidizing properties Not determined

Other information
No information available
SECTION 10: Stability And Reactivity

Reactivity
No known effects under normal use conditions.

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to avoid
Heat, flames and sparks. Incompatible materials.

Incompatible materials
Strong oxidizing agents. Strong bases.

Hazardous decomposition products
Carbon oxides, nitrogen oxides, phosphorous oxides.

SECTION 11: Toxicological Information

Information on likely routes of exposure

Inhalation
Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact
Causes serious eye damage.

Skin contact
Causes skin irritation. May cause an allergic skin reaction.

Ingestion
Harmful if swallowed.

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tripropylene glycol diacrylate (CAS #: 42978-66-5)</td>
<td>= 6200 mg/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl) (CAS #: 162881-26-7)</td>
<td>= 1650 mg/kg (Rat)</td>
<td>&gt; 3 g/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>4-Methoxyphenol (CAS #: 150-76-5)</td>
<td>= 1600 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye damage.

Sensitization
May cause an allergic skin reaction.
Germ cell mutagenicity
No information available.

Carcinogenicity
No information available.

Reproductive toxicity
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
No information available.

SECTION 12: Ecological Information
Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Algae/Aquatic plants EC50</th>
<th>Fish LC50</th>
<th>Crustacea EC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tripropylene glycol diacrylate</td>
<td>28: 72 h Desmodesmus</td>
<td>4.5 - 10: 96 h Leuciscus idus</td>
<td>88.7: 48 h Daphnia magna mg/L</td>
</tr>
<tr>
<td>(CAS #: 42978-66-5)</td>
<td>subspicatus mg/L EC50</td>
<td>mg/L LC50</td>
<td>magna mg/L EC50</td>
</tr>
<tr>
<td>4-Methoxyphenol (CAS #:</td>
<td>-</td>
<td>84.3: 96 h Pimephales</td>
<td>-</td>
</tr>
<tr>
<td>150-76-5)</td>
<td></td>
<td>promelas mg/L LC50</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>flow-through</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>28.5: 96 h Oncorhynchus</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>mykiss mg/L LC50 flow-through</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No information available.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Partition coefficient (LogPow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tripropylene glycol diacrylate</td>
<td>2.77</td>
</tr>
<tr>
<td>(CAS #: 42978-66-5)</td>
<td></td>
</tr>
<tr>
<td>4-Methoxyphenol (CAS #: 150-76-5)</td>
<td>1.34</td>
</tr>
</tbody>
</table>

Mobility in soil
No information available.

Other adverse effects
No information available.
SECTION 13: Disposal Considerations

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Methoxyphenol 150-76-5</td>
<td>-</td>
<td>Included in waste stream:</td>
<td>K060</td>
<td>-</td>
</tr>
</tbody>
</table>

SECTION 14: Transport Information

UN/ID No. Not regulated
UN proper shipping name Not regulated
Hazard class Not regulated
Packing group Not regulated
Special precautions No information available
Marine pollutant Non-marine pollutant

SECTION 15: Regulatory Information

International inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>AICS</th>
<th>DSL/NDSL</th>
<th>EINECS/ELI/ NCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morpholine, 4-(1-oxo-2-propenyl) - 5117-12-4 (34 - 36)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tripropylene glycol diacrylate 42978-66-5 (15 - 17)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethoxylated trimethylolpropane triacrylate 8961-43-5 (19 – 21)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Phosphine oxide, phenylbis (2,4,6-trimethylbenzoyl) 162881-26-7 (2.3 – 2.7)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>4-Methoxyphenol 150-76-5 (0.02 - 0.07)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

"-" Not Listed
"X" Listed
US Federal Regulations
SARA 313
Not applicable

SARA 311/312 Hazard Categories
Not applicable

CWA (Clean Water Act)
Not applicable

CERCLA
Not applicable

US State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Methoxyphenol 150-76-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

SECTION 16: Other Information

Revision note
Issue date 27-Feb-2017
Revision date 27-Feb-2017
Revision note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet
TWA - TWA (Time Weighted Average)
STEL - STEL (Short Term Exposure Limit)
Ceiling - Maximum limit value
TSCA - Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial chemical Substances/European List of Notified Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korea Existing Chemicals List
PICCS - The Philippine Inventory of Chemicals and Chemical Substances
AICS - The Australian Inventory of Chemical Substances
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