

Product name:

BACEL® RESIN - EC-Code Resin / Chemical ID: 39091000

1. Identification of the Producer and the Marketing Company
 - a. Production Plant: Aqua Resins Technologies B.V.
Nijverheidsweg 17,17a,17b
6651 KS Druten
The Netherlands www.aquaresinstechnologies.com
T:+31(0)487 593778
 - b. Marketing Company: Resins Industry BV
Nijverheidsweg 17,17a,17b
6651 KS Druten
The Netherlands www.resinsindustry.com
T:+31(0)487 593778
 - c. Distributor: NORTANK - Safer Solutions AS
Fanaveien 15
5221 Nesttun
Norway
T:+47 926 78 000 // T: +47 948 48 500
 - d. Use: Filling of closed tanks and confined spaces.
2. Composition.
 - a. Chemical Name: Urea – Formaldehyde Resin in water
 - b. Synonyms: UF Resin
 - c. Chemical Family: Aminoplasts – Duroplasts
3. Hazards Information. Formaldehyde (EC No: 200-001-8)
 - a. Hazard statements
H301 + H311 + H331-H317-H335-H341-H350-H370
Precautionary statements
P201-P260-P280-P301 + P310 + P330-P303 + P361 + P353-P304 + P340 + P310-P305 + P351
P338-P308 + P311-P403 + P233
This water-based resin is non hazardous
 - b. It has light irritation effect on eyes, skin and when inhaled


4. First Aid Measures.
 - a. Skin Contact: Rinse immediately with water
 - b. Eye Contact: Rinse immediately with water and ask for medical advise
 - c. Inhalation: Leave area immediately to get fresh air
5. Fire Fighting Measures.
 - a. Flammability: The water based resin is non flammable, does not ignite nor burn
 - b. Suitable extinguishing Media: not applicable
 - c. Unsuitable Extinguishing Media: not applicable
 - d. Special Hazards: not applicable
 - e. Protective Equipment: see 8

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6. Accidental Release Measures.
- a. Personal Precautions: see 8
 - b. Environmental precautions when released INDOORS:
First add absorption material (foam flakes/peat/sand/grit etc) remove the absorbed material, rinse immediately and abundantly with water within 15 minutes. Ventilate the room to evacuate vapours.
 - c. Environmental precautions when released OUTDOORS:
First add absorption material (foam flakes/peat/sand/grit etc) remove the absorbed material, rinse immediately and abundantly with water within 15 minutes.
 - d. Methods for cleaning: see above 6b Indoor / 6c Outdoor
7. Handling and Storage.
- a. Handling: Operators must be trained to work with UF Resins/polymer. operators must wear rubber gloves and goggles. Remove stained clothes and clean before re-use.
 - b. Storage: Store the resin between 5°C and 25°C to avoid polymerisation. Keep storage container closed. Protect from direct sun light. Store in ventilated area. Prevent contact with acids and alkalis.
8. Exposure Protection and Personal Protection.
- a. Exposure Protection: Keep storage container always closed. Ventilate storage area.
 - b. Personal Protection:
 - i. Hand Protection: Operators must wear rubber gloves.
 - ii. Eye Protection: Operators must wear goggles.
 - iii. Skin Protection: Operators should wear an overall e.g..
 - iv. Other Protective Measures: Operators must be trained to work with UF Resins.
- Occupational Exposure Limits (EH40): Formaldehyde; **EEC Guidelines**
0,2 ppm – 8 hour TWA -MAXIMUM EXPOSURE LIMIT
0,4 ppm – 15 min.ref period – MAXIMUM EXPOSURE LIMIT
- Occupational Exposure Limits (EH40): Formaldehyde; **UK Guidelines**
1 ppm – 8 hour TWA -MAXIMUM EXPOSURE LIMIT
2 ppm – 15 min.ref period – MAXIMUM EXPOSURE LIMIT
9. Physical and Chemical Properties.
- a. Appearance: Transparent, white syrupy liquid
 - b. Odour: Light smell of formaldehyde
 - c. UF Resin percentage: 63%
 - d. pH: 7,0 – 7,5
 - e. Boiling Point: 100 °C (approx)
 - f. Flash Point: Not known
 - g. Self ignition: Not known
 - h. Flammability: Non flammable
 - i. Explosive properties: None
 - j. Oxidizing Properties: None
 - k. Vapour Pressure: not applicable / non volatile acid
 - l. Vapour Density: not applicable / non volatile acid

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m. Density:	1,16 kg/m ³
n. Solubility in water:	Up to 100%
o. Dynamic Viscosity (cP at 30°C):	17m Pa

10. Stability and Reactivity.

The water based resin is stable and remains stable during at least 8 months after production, subject to proper storage and handling.

Storage outside of the range between 5°C and 25°C must be avoided because of polymerisation a.o.

Direct Contact with H₂O₂ will result in degradation of the product.

Contact with hydrogen chloride (hydrochloric acid) which may, under certain conditions, lead to the formation of toxic and carcinogenic bischloromethyl ether (bis-CME).

Hazardous Decomposition Products: Thermal decomposition products may include formaldehyde, oxides of nitrogen and carbon monoxide

11. Toxicological Information.

a. Carcinogenicity:	The resin may cause cancer
b. Eyes:	Slightly irritating
c. Skin:	Slightly irritating
d. Inhalation:	Slightly irritating

Human Data:

Formaldehyde is irritating to the eyes, skin and respiratory tract, and may cause sensitisation. Formaldehyde has been classified as a Category 1b carcinogen. Category 1b substances are those which cause concern for man owing to possible carcinogen effects. Formaldehyde has been placed in this category because, although it has been shown to cause cancer in rats, the large number of human studies has provided no convincing evidence that formaldehyde produces cancer in man. Current risk assessments show that if there is any risk at all, it must be small in absolute terms. Exposure to formaldehyde in the workplace should be reduced as far as is reasonably practicable and in any case, below the Maximum Exposure Limit 0,4 ppm. (EEC) and 2 ppm within the UK. Compliance with this requirement will virtually eliminate any carcinogenic risk that might have been present at higher levels of exposure.

12. Ecological Information

a. Environmental effects:	None
b. Eco toxicity:	None
c. Bio concentration:	None

13. Disposal Considerations.

a. Disposal Method:	Polymerisation with weak acid. Grinding and disposal in landfill
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14. Transport Information.

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|---------------------------|----------------|
| a. Identification Number: | EC-39091000 |
| b. Transport Name: | UF Resin |
| c. ADR/RID: | Not applicable |
| d. IMO-IMDG code: | Not applicable |
| e. ICAO/IATA: | Not applicable |

15. Regulatory Information.

- a. Hazard statement(s)
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H370 Causes damage to organs.
- b. Precautionary statement(s)
P201 Obtain special instructions before use.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P303 + P361 + P353 IF ON SKIN (or hair):
Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/ physician.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

16. Other Information.

For detailed information see manufacturer's specifications and manuals.

DISCLAIMER:

The information contained herein is furnished for information only and is believed to be reliable.

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