

VERSION : 01EN

**ACRYLIC TOPCOAT GLOSS**

DATES: 19/04/2019

NO: bd-tc-g-01-1110-en-zaw

**-BIODUCO-**

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**1. Substance/preparation and company identification**

Substance/preparation	Emergency Response Information Company
Chemical family: Polymer, dispersion	Bio Industries.CV Jl Sidikan no. 94, Sorosutan, Umbulharjo, Yogyakarta Phone/fax. 0274-388301 Email. info.bioindustries@gmail.com
Synonyms: ACRYLATE POLYMER DISPERSION	

**2. Composition/information on ingredients**

Chemical name	CAS Number	Content (W/W)
Acrylic polymer(s)	Not Hazardous	40 - 45 %
Water	7732-18-5	55 - 60 %
additives (Trade Secret)	Not Hazardous	0,1 -1%

**3. Hazard identification****Emergency overview**

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY ORGAN IRRITATION. INGESTION MAY CAUSE GASTRIC DISTURBANCES.

**Potential health effects****Primary routes of exposure**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Acute toxicity:**

Ingestion may cause gastrointestinal disturbances.

**Irritation:**

Irritation is possible when the product comes in contact with the skin, respiratory organ or eyes.

**Repeated dose toxicity:**

No other known chronic effects.

**4. First-aid treatment****General advice:**

Remove contaminated clothing.

**If inhaled:**

Move the affected individual into fresh air and keep the person calm. Give breathing assistance if necessary. Immediate medical attention required.

**If on skin:**

Wash affected areas thoroughly with soap and water. If irritation develops, get medical treatment.

**If in eyes:**

Flush with copious amounts of water for at least 15 minutes. If irritation develops, get medical treatment.

**If swallowed:**

Immediately rinse mouth and drink plenty of water, do not induce vomiting, get medical treatment. Do not induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

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**5. Fire-fighting measures**

Flash point: > 300 °F (Unspecified)  
Autoignition: No available data.

**Suitable extinguishing media:**

water fog, foam, dry extinguishing media

**Hazards during fire-fighting:**

No particular hazards found.

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and extinguishing gear.

**6. Accidental release measures****Personal precautions:**

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

**Environmental precautions:**

Observe environmental regulations.

**Cleanup:**

Spills should be contained, solidified, and placed in suitable containers for disposal.

**Further information:**

Possible high risk of slipping due to leakage/spillage of product.

**7. Handling and storage****Handling****General advice:**

Handle in accordance with good industrial hygiene and safety practice.  
No special measure is necessary provided product is used correctly.

**Protection against fire and explosion:** No explosion proofing is necessary.

**Storage****General advice:**

Protect storage against freezing.

**8. Exposure controls and personal protection****Advice on system design:**

Provide local exhaust ventilation to maintain recommended P.E.L.

**Personal protective equipment****Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed.

**Hand protection:**

Use chemical resistant protective gloves

**Eye protection:**

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

**General safety and hygiene measures:**

Hands and/or face should be washed before breaking & at the end of the shift. Avoid contact with skin & eyes.

**9. Physical and chemical properties**

**Form** : liquid pasta  
**Odors** : specified scent  
**Colors** : milky white  
**pH value** : 7 - 8.5

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*Information on: water*

**solidification temperature** : 30 °C  
**boiling temperature** : 150 °C ( 1,000 hPa)  
**Vapour pressure** : 17.5 mmHg ( 20 °C)

*Information on: water*

**Vapour pressure** : 23 mbar ( 20 °C)  
**Relative density** : 1.03 ( 68 °F)  
**Bulk density** : 8.58 lb/USg  
**Viscosity, dynamic** : -  
**% volatiles** : 60-57 %  
**Solubility in water** : soluble

**10. Stability and reactivity**

**Conditions to avoid** : Avoid extreme heat.  
**Substances to avoid** : not identified  
**Hazardous reactions** : The product is chemically stable.  
**Decomposition products** : Hazardous decomposition products: carbon dioxide hydrocarbons  
**Corrosion to metals** : No corrosive effect on metal.

**11. Toxicological information****Acute toxicity**

**Oral** : LD50/rat: > 2,000 - 10,000 mg/kg  
**Skin irritation** : rabbit: non-irritant (OECD Guideline 404)  
**Eye irritation** : rabbit: non-irritant (OECD Guideline 405)

**Chronic toxicity****Other information:**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.  
The statement was derived from products of similar composition.

**12. Ecological information****Environmental fate and transport****Biodegradation:**

Test method : OECD 302B; ISO 9888; 88/302/EEC,part C  
Method of analysis : DOC reduction  
Degree of elimination : > 70 %  
Evaluation : Easily eliminated from water.  
The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

**Bioaccumulation**

: Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

**Environmental toxicity****Acute and prolonged toxicity to fish:**

OECD Guideline 203 static  
zebra fish/LC50 (96 h): > 100 mg/l

**Acute toxicity to aquatic invertebrates:**

OECD Guideline 202, part 1 static  
Daphnia magna/EC50 (48 h): > 100 mg/l

**Toxicity to aquatic plants:**

OECD Guideline 201 green algae/EC50 (72 h): > 100 mg/l Nominal concentration.

**Toxicity to microorganisms:**

DIN EN ISO 8192-OECD 209-88/302/EEC,P. C activated sludge, domestic/EC20 (0.5 h): > 100 mg/l  
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological substance.  
Plants treatment is in appropriate low concentrations.

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**Other ecotoxicological advice:**

Do not release untreated material into natural waters. At the present state of knowledge, no negative ecological effects are expected. Ecological data are determined by analogy.

**13. Disposal considerations****Waste disposal of substance:**

Incinerate or dispose in a licensed facility. Do not discharge into drains or surface waters or groundwater.

**Container disposal:**

Dispose of in a licensed facility. Crushing, puncturing or other way of destruction is recommended to prevent unauthorized use of used containers.

**14. Transport information****Land transport**

USDOT Not classified as a dangerous substance under transport regulations

**Sea transport**

IMDG Not classified as a dangerous substance under transport regulations

**Air transport**

IATA/ICAO Not classified as a dangerous substance under transport regulations

**15. Regulatory information**

**OSHA hazard category:** Not hazardous

**SARA hazard categories (EPCRA 311/312):** Not hazardous

**16. Other information****HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

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