

MATERIAL SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: BeBio Nail Lacquer

Distributor Name: Bio Seaweed Gel Limited

Address: 151 Nashdene Rd Unit 51-52, Toronto ON, M1V 4B9 Canada

Contact: 1-877-428-8816 info@bioseaweedgel.com

MSDS Number: 636

SECTION 2. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable.

May form flammable en explosive vapour-air mixture.

Risk of explosion by fire, shock, friction, and other sources of ignition.

May explode in mixture with oxidising compounds, strong acids and strong bases.

Specific hazards: Repeated and prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product. Affect many plastics.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Synonym(s): Nail polish

14-15-17-26-30-35-36-37-39-56-66-70-88-93-95-96-98-107-124-125-134-135-140-141-142-144-152-153-154-155-156-163-172-175-212-294-298-256-399-928-935-946-992/301-804-806 / 072-076/ série 600 / Slurry

Component(s) contributing to the hazard:

• n-butyl acetate -Id No: 607-025-00-1 -CAS no: 123-86-4 -EC no: 204-658-1 Conc. wt.(%): 15 < C <= 55
-Classification: • R 10 • R 66 • R 67 • ethyl acetate -Id No: 607-022-00-5 -CAS no: 141-78-6 -EC no: 205-500-4
Conc. wt.(%): 15 < C <= 55 -Classification: • F; R 11 • Xi; R 36 • R 66 • R 67 • propan-2-ol; isopropyl alcohol;
isopropanol -CAS no: 67-63-0 -EC no: 200-661-7 Conc. wt.(%): 2 < C <= 15 -Classification: • F; R 11 • Xi; R 36 • R 67 •

SECTION 4. FIRST AID MEASURES

General advice:

In all cases of doubt, or when symptoms persist, seek medical attention. For symptom description, see item 11.

Never give anything by mouth to an unconscious person.

Inhalation:

- Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice.
- Artificial respiration and/or oxygen if necessary.

Skin contact:

- Take off immediately all contaminated clothing.
- Wash off with soap and plenty of water.-If skin irritation persists, take medical advice.

Eye contact:

- Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.

Ingestion:

- Do not induce vomiting.
- Rinse mouth, do not drink anything, keep quiet, and go immediately to hospital or to a doctor.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂), water spray, sand, earth.

Extinguishing media which must NOT be used for safety reasons:

Do not use water jet.

Specific method(s): Cool containers/ tanks with spray water if possible. Do not allow run-off from fire fighting to enter drains or water courses. G.E. Conseils ® PAGE 1 / 6

Specific fire hazard(s): Explosion risks of vapours.

The exposure of the containers or tightly closed drums to high temperature can cause increase of pressure.

Vapours are heavier than air and spread above ground.

In case of fire, product decomposes in: carbon oxides (CO and CO₂) and smokes. Concerning product toxicity, see item 11 and about product stability and reactivity see item 10.

Special protective equipment for firefighters:

Use a self-contained breathing apparatus and also a protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precaution(s):

Evacuate personnel to a safe area. Remove all sources of ignition. Be careful to flashback of fire. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Concerning personal protective equipment to use, see item 8.

Environmental precaution(s):

Stop leak without risks if possible. Dike and contain spill. Do not allow surface water to enter drains and sewers as this will create a potential explosive hazard. If this occurs inform local authorities immediately.

Concerning disposal elimination after cleaning, see item 13.

Method(s) for cleaning up:

Scoop or vacuum spilled material rapidly in a suitable container with an explosion proof or handpump. Soak up with absorbent material (for example sand, sawdust, neutral absorbent granule, silicagel). Shovel into suitable and closed container for disposal. Dispose as hazardous waste.

SECTION 7. HANDLING AND STORAGE

Handling

-Precaution(s): Avoid all eyes and skin contact and do not breathe vapour and mist. Do not eat, drink and do not smoke in areas where product is used. Shower, eyes shower and water point in proximity. Wear personal protective equipment (see item 8).

* Handling this product may result in electrostatic accumulation. Use proper grounding procedures.

* Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.-Technical condition(s):

* Closed system, ventilation, explosion-proof electrical equipment and lighting. Ventilation along floor. Avoid static electricity discharges. Local ventilation is needed at points where vapours are expected to escape to the air in the work place. Maximum handling temperature: < 30°C

* The product may charge electrostatically: use earthing leads when transferring from one container to another.

* Do NOT use compressed air for filling, discharging, or handling.-Safe handling advice(s):

* Limit the quantity of product present in the work place to the minimum. Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Nonsparking tools should be used. Opened containers must be carefully closed and kept upright to avoid leakage.

Storage-Precaution(s): Store in a place accessible by authorised persons only.

-Technical condition(s): Not flammable and waterproof underground retention basin.

-Storage condition(s): Keep container tightly closed and at a temperature not exceeding (°C): 30

Keep away from sources of ignition

-No smoking.

Store away from direct sunlight or other heat sources. Store in a well-ventilated place.

-Separation of incompatible product(s): Keep away from: strong acids, strong bases and oxidising compounds.

-Packaging / tank material: Coated steel with phenolic resin.

* polyethylene (high density)

-Unsuitable packaging materials:

-Avoid certain plastics which are soluble in product.

-rubbers

-aluminium

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measure(s): * Reduce the number of workers exposed and exposition to the minimum

* The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances.

* Appropriate measures include:

* - Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/ limits.

*- Shower, eyes shower and water point in proximity....

Control parameter(s):

- Exposure limit(s): • n-butyl acetate:VME ppm = 150 - VME mg/m = 713 - VLE ppm = 200 - VLE mg/m = 950

• ethyl acetate:VME ppm = 400 - VME mg/m = 1440

• propan-2-ol; isopropyl alcohol; isopropanol:VME ppm = 250 - VME mg/m = 650

Exposure limit value may fluctuate with countries. See local regulations.

- Recommended monitoring procedures:

* Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

* For some substances example of sources of recommended air monitoring methods are given below (INRS)

n-butyl acetate For instance Draeger pump equipped with reacyive tube 200/a

Isopropyl alcohol = For instance Gastec Pump equipped with Tube 113 or 113L

* Further national methods may be available.

Personal protection equipment:

- Respiratory protection: * Personal protective equipment should meet recommended national standards

* If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation.

Example of suitable respiratory equipment: with vapour cartridge A meeting EN 141 (VOC gaz, boiling point > 65°C).

- Hand protection: * Where hand contact with the product may occur the use of gloves approved to relevant standards (Protective gloves approved to revelant standards (Europe EN 374), minimum protective index adviced 2) may provide suitable protection

- Skin and body protection: Wear suitable protective clothing type nomex 3 antistatic or cotton.

- Eye protection: Wear security glasses which protect from splashes. (conform to norm EN 166).

- Environmental exposure controls:

* Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

Hygiene measure(s): Handle in accordance with good industrial hygiene and safety practice.

Keep workplace clean and tidy as much as possible.

* Regular cleaning of equipment, work area and clothing.

Do not eat, drink, or smoke during work.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

General information

- Physical state / form: liquid

- Colour: colourless / amber or pigmented

- Odour: characteristic

Important health, Non sparking safety and environmental information

- PH: Not applicable.
- Boiling point/range: Not determined.
- Flash point: 1°C
- Explosion limits: n-butyl acetate = > 1.7 and < 7.6 %Vol in air
- Relative density (water = 1): 0.95 - 1.5
- Viscosity: Also consult publication: Technical Data Sheet concerned.
- Water solubility: immiscible
- Fat solubility: Not applicable.
- Solvent solubility: completely soluble (ketones, esters...)

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable in use and storage conditions as recommended in item 7.

Do not expose at temperatures above 30°C.

Prolonged exposure to temperature higher than 25°C may cause a rapid yellowing of the product.

Material(s) to avoid: Avoid certain plastics which are soluble in product.

Reacts violently with: strong acids, strong bases, oxidising compounds, aldehydes.

Hazardous decomposition products: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

General information(s): There is no data available on the product itself.

Periodical medical test is recommended in function of exposition measure.

Acute toxicity

Ethyl acetate = > 18 000 mg/kg

* n-butyl acetate = > 14 100 mg/kg

Isopropyl alcohol = 13 000 mg/kg

- Eyes contact: mild eye irritation (pain, redness)

Ethyl acetate = 5 620 - 10 200 mg/kg

* n-butyl acetate = > 10 000 mg/kg

Isopropyl alcohol = 4400 - 7800 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecological information: Not available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste / unused products: Collect all waste in suitable and labelled containers and dispose according to local legislation.

Can be recycled.

Do not dispose of waste into sewer.

Destruction by incineration / pyrolyse. See paragraph 10: hazardous decomposition products.

For waste disposal contact local agreed company.

Contaminated packaging: Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Container remains hazardous when empty. Continue to observe all precautions.

Do not burn, or use a cutting torch on the empty drum.

Further Information(s):

SECTION 14. TRANSPORT INFORMATION

General information(s): Transport followed ADR,
IMDG, IATA

UN N°: 1263

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Land (Road / Railway: ADR/RID)

- Proper shipping name: Paint related materials

- Class: 3

- Verpakkingsgroep: II

- TREM-CARD code: * 3OGF1-I+II

- ADR/RID-Labels: 3

- Code danger: * 33

- Classification code: * 160 640C 650

- Packing instructions: * P001

Sea (IMDG)

- Proper shipping name: * Paint related materials

- Class: 3

- Packaging group: II

- Marine pollutant: * No

- EmS number: * F-E,S-E

- IMDG-Label(s): 3

- Packing instructions: * P001

Air (ICAO/IATA)

- Proper shipping name: * PAINT

- ICAO/IATA class: 3

- Packing group: II

- ICAO/IATA-Labels: 3

SECTION 15. REGULATORY INFORMATION

Labelling: * According to european directives on classification, packaging and labelling of dangerous substances 67/548 and last up-dated adaptations 2004/73/CE and Directive 1999/45/EC of the European Parliament and of the Council relating to the classification, packaging and labeling of dangerous products
EC number: Not applicable.

Symbol(s): F - Highly flammable ; Xi - Irritant

R-phrases(s): 11 Highly flammable.

36 Irritating to eyes.

66 Repeated exposure may cause skin dryness or cracking

67 Vapours may cause drowsiness and dizziness

S-phrases(s): 17 Keep away from combustible material.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

33 Take precautionary measures against static discharges.

SECTION 16. OTHER INFORMATION

DISCLAIMER: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.