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SAFETY DATA SHEET

Preparation date: 16.03.2011. **Revision date: 24.11.2016.** **Ver.: 2.0**

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier: **Brill Bird Nail Prep**

1.2. Relevant identified uses of the mixture and uses advised against:

Nail preparation liquid for cosmetic use.

1.3. Details of the supplier of the safety data sheet:

Brillbird Europe Ltd.

1066 Budapest, Ó utca 46.

tel.: 06-30/506-8820

e-mail: brbirdeurope@gmail.com

1.4. Emergency telephone number:

Country	Name	Phone No.	Availability
Hungary	**Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ)**	**+36 80201199**	**call around the clock**
Austria	Vergiftungsinformationszentrale	+43 14064343	call around the clock
Belgium	Antigifzentrum	+32 070245245	call around the clock
Czech Republic	Toxikologického informačního střediska	+420 224919293	call around the clock
Denmark	Giftlinjen	+45 82121212	call around the clock
France	Centre Antipoison et de Toxicovigilance	+ 33 0140054848	call around the clock
Germany	Giftnotruf Berlin Institut für Toxikologie	+49 3019240	call around the clock
Ireland	National Poisons Information Centre	+353 018092566	call around the clock
Italy	S.C. Centro Antiveleni di Milano (CAV)	+39 0266101029	call around the clock
Spain	Instituto Nacional de Toxicología y Ciencias Forenses	+34 915620420	call around the clock
The Netherlands	Vergiftigingen	+31 0302748888	call around the clock

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

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

Flam. Liq. 2 **H225**

Eye Irrit. 2 **H319**

STOT SE 3 **H335**

2.2. Labelling elements:

GHS02 GHS07

Signal words: Danger

Hazard statements

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

Precautionary statements

Prevention	Wear protective gloves. Wear eye/face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Avoid release to the environment.
Response	
If inhaled	Remove person to fresh air and keep comfortable for breathing.
If on skin	Take off immediately all contaminated clothing. Rinse skin with water or shower.
Storage	Keep cool.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	EU No.	INCI name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Hazard statements	m%
propan-2-ol	67-63-0	200-661-7	Isopropyl Alcohol	Flam. Liq. 2 Eye Irrit. 2. STOT SE 3	H225 H319 H336	25-50
ethyl acetate	141-78-6	205-500-4	Ethyl Acetate	Flam. Liq. 2 Eye Irrit. 2. STOT SE 3	H225 H319 H336	25-50
isobutyl acetate	110-19-0	203-745-1	Isobutyl Acetate	Flam. Liq. 2	H225 EUH066	10-25

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

4. FIRST AID MEASEURE

4.1. Description of first aid measures

If inhaled

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. Get medical attention. If necessary, call a poison centre or physician. 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 skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
In case of eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If swallowed	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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.

4.2. Most important symptoms and effects associated with exposure

Potential acute health effects	
If inhaled	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
In case of skin contact	Repeated exposure may cause skin dryness or cracking.
In case of eye contact	Causes serious eye irritation.
If swallowed	Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms	
If inhaled	Nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
In case of skin contact	Redness, skin dryness, cracking.
In case of eye contact	Pain or irritation, watering, redness.
If swallowed	No data.

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatment	No specific treatment.

FIREFIGHTING MEASURES

5.1. Extinguishing media	Foam, dry chemical or carbon dioxide or water spray. Do not use water jet.
5.2 Specific hazards during fire fighting	Highly flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a

	considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	Carbon oxides (monoxide, dioxide)

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.

6. ACCIDENTAL RELEASE MEASURE

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. Avoid breathing 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".
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).
6.3. Methods and materials 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 in all cases.
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 noncombustible, 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.

7. HANDLING AND STORAGE

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 ingest. Avoid breathing vapour or mist. 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.
Hygiene measure	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

Requirements for storage areas and containers	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 oxidizing 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.

7.3. Specific end uses

Recommendations	Not available.
Industrial sector specific solutions	Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Occupational exposure limits

OELs (Occupational Exposure Limit values) for Hungary[1]		
Component	**TWA** (Time Weighted Average)	**PC** (Peak Concentration)
propan-2-ol	500 mg/m^3	2 000 mg/m^3
ethyl acetate	1 400 mg/m^3	1 400 mg/m^3

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

[1]For other local/national OEL values visit the following website:
http://www.dguv.de/ifa/fachinfos/occupational-exposure-limit-values/foreign-and-eu-limit-values/index.jsp

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.

8.2. Exposure controls

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	
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
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.
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.
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.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance/form	Clear, colourless liquid
Odour	Strong, pungent, fruity
Initial boiling point/range	77 °C
Flash Point	below 23 °C (closed cup)

Upper/lower flammability or explosive limits	Lower: 2 % Upper: 11.4 %
Vapour pressure	Not available.
Vapour density	> 1 [Air=1]
Relative density	0.92

9.2. Other information

No further information available.

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 Stable under normal conditions of storage and use.

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. Do not allow vapour to accumulate in low or confined areas.

10.5. Incompatible materials Reactive or incompatible with the following materials: oxidizing materials

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

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
propan-2-ol	LD50 Dermal	Rabbit	12 800 mg/kg	-
	LD50 Oral	Rat	5 000 mg/kg	-
ethyl acetate	LD50 Oral	Rat	5 620 mg/kg	-
isobutyl acetate	LD50 Dermal	Rabbit	17 400 mg/kg	-
	LD50 Oral	Rat	13 400 mg/kg	-

Irritation/Corrosion

Ingredient name	Result	Species	Exposure
propan-2-ol	Eyes – Moderate irritant	Rabbit	10 mg
	Eyes – Severe irritant	Rabbit	100 mg-
isobutyl acetate	Eyes – Moderate irritant	Rabbit	24 hrs 500 mg

Classification methods of the product

Toxicity	Value	Method of classification	Result
Eyes irritation	Irritating.	Generic cut-off value	Eye Irrit. Cat. 2
Specific target organ toxicity after single exposure	May cause drowsiness or dizziness.	Additivity principle	STOT SE Cat. 3

11.2. Most important symptoms and effects associated with exposure

Potential acute health effects	
If inhaled	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
In case of skin contact	Repeated exposure may cause skin dryness or cracking.
In case of eye contact	Causes serious eye irritation.
If swallowed	Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics	
If inhaled	Nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
In case of skin contact	Redness, skin dryness, cracking.
In case of eye contact	Pain or irritation, watering, redness.

If swallowed No data.

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

Not available.

11.4. Potential chronic health effects

Not available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ingredient name	Result	Species	Exposure
propan-2-ol	Acute LC50 1 400 000 µg/l Marine water	Crustaceans – Crangon crangon	48 hrs
	Acute LC50 4 200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hrs
ethyl acetate	Acute EC50 2 500 mg/l Fresh water	Algae - Selenastrum sp.	96 hrs
	Acute LC50 750 000 µg/l Fresh water	Crustaceans – Gammarus pulex	48 hrs
	Acute LC50 154 000 mg/l Fresh water	Daphnia - Daphnia cucullata	48 hrs
	Acute LC50 212 500 mg/l Fresh water	Fish – Heteropneustes fossilis	96 hrs
	Chronic NOEC 2 400 µg/l Fresh water	Daphnia Magna	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - Pimephales promelas - Embryo	32 days

12.2. Bioaccumulative potential

Ingredient name	LogPow	BCF	Potential
propan-2-ol	0.05	-	low
ethyl acetate	0.68	30	low
isobutyl acetate	2.3	-	low

12.3 Mobility in soil / Soil water partition coefficient (Koc) Not available.

Mobility Not available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product — 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. Dispose in a safe manner in accordance with local regulations.

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

Packaging — 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. 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.

14. TRANSPORT INFORMATION

This product is classified as dangerous goods.

14.1. UN No.	1993
14.2. Proper shipping name	FLAMMABLE LIQUID, N.O.S. (isopropyl alcohol, ethyl acetate)
14.3. Transport hazard class	3
14.4. Packing group	PG II
14.5. Environmental hazards	None
14.6. Special precautions	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. Transport in bulk according to Annex II of Marpol and the IBC Code	Not available.

15. REGULATORY INFORMATION

15.1. Other regulation	1223/2009/EEC: Regulation on cosmetic products
15.2. Chemical Safety Assessment	Chemical Safety Assessment was prepared neither for the ingredients nor the product itself.

16. OTHER INFORMATION

Note of supplier of safety data sheet:

Since the product is marketed as a cosmetic product, thus, it is out of scope of CLP regulation 1272/2008. However, in order to facilitate the chemical risk assessment of work places for professional users, the classification and labelling elements in accordance with CLP are included.

The product is labelled in accordance with 1223/2009/EEC.

This SDS is based on data of the original safety data sheet provided by the manufacturer, using the up-to-date version of regulation 1907/2006. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product, therefore it cannot be used to verify quality compliance. Brillbird Europe Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.