

Material Safety Data Sheet

according to regulation (EC) 1907/2006 (REACH)



Trade name: **SSB® 63 HE-N; SSB® 63 S-NPU-N**

Version: 3.2 / E

Print date: 08.07.2013

Revision date: 08.07.2013

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation:

Shellac-Powder with Borax

Identification on the label / trade name:

SSB® 63 HE-N; SSB® 63 S-NPU-N

Additional identification:

REACH Registration No.:

Pre-Registration No. Shellac: 05-2114511069-55-0000

According to our investigations the SSB shellacs meet the definition of polymers under (EC) 1907/2006 (REACH) and are exempted from registration.

1.2 Use of the substance / preparation:

1.2.1 Identified uses:

SU5: Manufacture of textiles, leather, fur

SU6a: Manufacture of wood and wood products

SU6b: Manufacture of pulp, paper and paper products

SU10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU18: Manufacture of furniture

SU19: Building and construction work

SU21: Consumer uses: Private households (= general public = consumers)

1.2.2 Uses advised against:

At present we have no details for the uses advised against. By availability this data will be included in the material safety data sheet.

1.3 Company/undertaking identification

Supplier (manufacturer/importer/downstream user/distributor):

Stroeever GmbH & Co. KG

Postfach 15 03 51

Auf der Muggenburg 11

28217 Bremen

Tel: 0421-38613-0

Fax: 0421-38613-44

E-Mail:

info@stroeever.de

Information contact:

National contact:

1.4 Emergency Telephone

Tel: 0049 (0) 421 386130 This number is only available during office hours.

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2. HAZARDS IDENTIFICATION

2.1 Hazards description:

| GHS 1272/2008 | | |
|------------------------------------|------------------|--------------------------|
| Hazard classes/Hazard categories | Hazard statement | Classification procedure |
| Reproductive toxicity, Category 1B | H360FD | |
| Eye irritation, category 2 | H319 | |

| 67/548/EWG and 1999/45/EG | |
|-----------------------------------|--------------|
| Hazard classes/Hazard categories | Risk phrases |
| Reproductive toxicity, Category 2 | R60, R61 |
| Irritant (Xi) | R36 |

The full text of the risk phrases are mentioned in Section 16.

2.2 Informations pertaining to special dangers for human and environment:

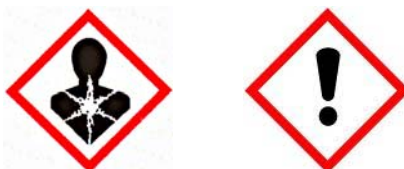
Adverse human health effects and symptoms: See section 11 for toxicological information. No more information available.

Adverse physicochemical effects: See section 9 for physicochemical information. No more information available.

Adverse environmental effects: See section 12 for ecological information. No more information available.

Labelling (Regulation (EC) No 1272/2008)

Hazard pictograms:



Signal words: Danger

Hazard statements: H360FD May damage fertility. May damage the unborn child
H319 Causes serious eye irritation

Precautionary statements: P202 Do not handle until all safety precautions have been read and understood
P281 Use personal protective equipment as required.
P308 + P313 If exposed or concerned get medical advice/attention.
P305 + P351 + P338: If in Eyes rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P501 Dispose of contents/containers in accordance with local regulation

Hazard components for labelling:
di-Sodium tetraborate decahydrate

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Preparation / mixture related information

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Description: Borax derivative of the natural resin shellac

3.2 Hazard ingredients:

Chemical name: di-Sodium tetraborate decahydrate
Formula: $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10 \text{H}_2\text{O}$
Index-No.: 005-011-01-1
EC-No.: 215-540-4
Molecular mass: 381,32 g/mol
Amount: <25%
Classification (1272/2008): Reproductive toxicity, Category 1B; Eye irritation, category 2
Hazard Statements: H360FD, H319

Classification (67/548/EWG and 1999/45/EG): Reproductive toxicity, Category 2; Irritant (Xi)
Risk Phrases: R36, R60, R61

4. FIRST – AID – MEASURES

4.1 General:

Change all contaminated clothing.

4.2 After Inhalation:

Remove person to fresh air. In case of complaints consult a physician.

4.3 After skin contact:

Wash off with plenty of water. Remove contaminated clothing. Consult a physician.

4.4 After eye contact:

Rinse with plenty of water. Should irritation continue call in ophthalmologist.

4.5 After swallowing:

Rinse mouth with water and drink plenty of water. Never give anything to unconscious person. Induce vomiting as long as affected person is conscious. Immediately get medical help.

4.7 INFORMATION TO PHYSICIAN

Symptoms: No information available

Hazards: No information available

Treatments: Symptomatic treatment. No information available

5. FIRE-FIGHTING-MEASURES

5.1 Extinguishing media:

Water spray jet, extinguishing foam, extinguishing powder, carbon dioxide (CO₂).

5.2 Unsuitable extinguishing media:

Direct water jet.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Incomplete combustion may generate hazardous gases (carbon monoxide).

5.4 Special protective equipment for fire-fighting:

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable clothing.

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5.5 Further Information:

Prevent fire extinguishing water from contaminating surface water or ground water system. Fire residues and contaminated fire extinguishing water must be disposed in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

Avoid dust formation, wear protective clothing. Avoid contact with skin and eyes. Do not ingest or inhale. Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions:

Do not empty into drains, surface water or ground water. Contact local authorities if product pollutes soil or vegetation.

6.3 Methods for cleaning up:

Take up mechanically and collect in suitable container for disposal. Dispose of properly. Clean up affected area. Avoid generation of dust.

6.4 Additional information:

Protective equipment see section 8.

7. HANDLING AND STORAGE

7.1 Handling:

Instructions for safe handling:

Keep container tightly closed. Wear adequate protective clothing (see section 8). Provide adequate ventilation. Avoid contact with eyes and skin.

Hygiene measures:

Keep away from food, beverages and feed. When using do not eat, drink or smoke. Wash hands before breaks and after work. Remove contaminated clothing. Work clothes separately. Avoid contact with skin, eyes and clothing. Do not breathe dust.

7.2 STORAGE

Technical measures and storage conditions:

Stable under recommended storage conditions.
Shelf-Life: 3 Years (at <20°C and 50% rel. humidity)

Requirements for storage rooms and vessels:

Store dry and in the original tightly sealed containers. Store locked up.

Storage compatibility:

Do not store together with: food, drink and animal feeding stuffs.

Further information on storage conditions:

Storage Class: VCI 11, combustible solids

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit values

Components with occupational exposure limits:

Component:

di-Sodium tetraborate decahydrate CAS-Nr.: 1303-96-4

Occupational exposure limits:

Legal basis: Germany. TRGS 900, Occupational exposure limits in the ambient air.
Legal list: TRGS 900
Type of value: AGW (Arbeitsplatzgrenzwert: Occupational exposure limit)
Value: 0,5mg/m³
Category: 2

8.2 EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities:

Provide sufficient ventilation at processing equipment, e.g. by local extractor fan. If these measures are not sufficient for keeping particle and / or solvent concentration below limiting values (MAK) suitable protective breathing equipment has to be used. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Personal protective equipment:

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of the work. Avoid contact with skin, eyes and clothing. Do not inhale dust. Remove contaminated clothing immediately.

Respiratory protection:

Dusk mask recommended when very dusty (with particle filter).
Particle Filter: P2
Particle Filter: P3

Hand protection:

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Glove-material: Butyl Rubber
Break through time: >=8h
Glove-Thickness: 0,5mm

Glove-material: Polyvinylchloride
Break through time: >=8h
Glove-Thickness: 0,5mm

Glove-material: Fluor Rubber
Break through time: >=8h
Glove-Thickness: 0,4mm

Glove-material: Nitril Rubber
Break through time: >=8h
Glove-Thickness: 0,35mm

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Eye protection:

Safety glasses with protective shields (EN 166, BGR 192, ZH 1/703)

Hygiene measures:

Apply preventive skin protection. Immediately change contaminated clothing. Wash hands and face after working with substance. Do not inhale substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:

Physical state: powder

Colour: pale yellow

Odour: oderless

9.2 Important health, safety and environmental information

Safety relevant basic data:

| | |
|---|--|
| pH-Value (20°C): | 7-8 |
| Melting range (°C): | Product sinters at temperatures of >80°C |
| Boiling point (°C): | n.a. |
| Flash point (°C): | >300°C |
| Vapour pressure (°C): | n.a. |
| Density (g/cm³): | n.a. |
| Bulk density at 20°C (kg/m³): | 200 kg/m ³ |
| Water solubility (20°C in g/l): | 33g/l |
| Partition coefficient:: | n.a. |
| n-octano l/ wasser (log Pow): | n.a. |
| Viscosity, dynamic (mPa s): | n.a. |
| Explosive risk: | Product does not present an explosion hazard |
| Lower explosion limit: | n.a. |
| Upper explosion limit: | n.a. |

10. STABILITY AND REACTIVITY

10.1 Thermal decomposition/conditions to be avoided:

Stable under recommended storage and handling conditions. Temperatures >80°C cause to sinter of product.

10.2 Chemicals to be avoided:

Strong reducing agents: Reactions with strong reducing agents could cause to build hydrogen.
Strong oxidising agents.
Acids.
Metallic salts
Alkali metals

10.3 Hazardous decomposition products:

None if stored and handled according to specifications.

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11. TOXIKOLOGICAL INFORMATION

11.1 Toxicokinetics, metabolism and distribution

Component:

di-Sodium tetraborate decahydrate CAS-Nr.: 1303-96-4

Acute inhalation toxicity:

Method: OECD- 403
Dose: >2,03mg/l
Exposition time: 4h
Typ of value: LD 50
Species: Rat
Symptoms: Irritation symptoms in the respiratory tract.

Acute oral toxicity:

Method: RTECS
Dose: 2,66 mg/kg
Exposition time: 4h
Typ of value: LD 50
Species: Rat

Acute dermal toxicity:

Database: IUCLID
Dose: >2.000mg/kg
Typ of value: LD 50
Spezies: Rabbit

Dose: >10.000mg/kg
Typ of value: LD 50
Specie: Rat

Toxicological information:

For the product itself no data is available. The description of possible adverse effects based on experiences from practice and / or toxicological properties of individual components. Acute toxicity, skin irritation, mucous membrane irritation, skin sensitization and mutagenic potential of the substance / the preparation by the manufacturer based on the review of the main components of this data.

11.2 IRRITATION:

Skin:

Species: Rabbit
Result: No Irritation
Database: IUCLID

Eyes:

Species: Rabbit
Result: Slight Irritation
Database: IUCLID

Sensitation:

Method: Buehler-Test
Species: Guinea pig
Result: no sensitation

Method: Patch test: human
Result: Negative
Database: IUCLID

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CMR effects (carcinogenity, mutagenicity and toxicity for reproduction).

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Carcinogenicity: Not known
in-vitro Mutagenicity: Not known
in-vivo Mutagenicity: Not known
Genotoxicity: Not known
Toxicity for reproduction: Reproductive toxicity, Category 1B; Eye irritation, category 2 (1272/2008); May damage the unborn child. May damage fertility.

Additional Information:

No health impairments known or expected when used according to specifications.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

| Aquatic toxicity | Effect dose | Exposure time | Species | Methode | Evaluation |
|--|-------------|---------------|-------------------------|-----------|-----------------|
| Acute fish toxicity | LC50 | 96h | Oncorhynchus mykiss | | 75mg/l |
| Acute fish toxicity | LC50 | 72h | Carassius auratus | IUCLID | 630mg/l |
| Acute daphnia toxicity | EC50 | 48h | Daphnia magna | IUCLID | 1,085-1,400mg/l |
| Acute daphnia and aquatic invertebrates toxicity | EC5 | 72h | E.sulcatum | IUCLID | 1,3mg/l |
| Acute algae toxicity | IC50 | 72h | Desmodesmus subspicatus | DIN 38412 | 158mg/l |
| Acute bacteria toxicity | EC10 | 16h | Pseudomonas putida | IUCLID | 35,4mg/l |

12.2 Mobility:

No information available.

12.3 Persistence and degradability

Abiotic Degradation:

No information available

Physical- and photo-chemical elimination

Biodegradation:

| Deagradation rate (%) | Time (d) | Method | Evaluation | Remark |
|-----------------------|----------|------------|---------------------|---------|
| 13 | 28 | OECD- 301D | moderately degraded | Shellac |
| | | | | |
| | | | | |

Bioaccumulative potential:

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No Information available.

Bioconcentration factor (BCF):

No Information available.

Longterm-Ecotoxicity:

No Information available.

12.4 Results of PBT assessment:

No Information available.

12.5 Other adverse effects:

No Information available.

12.6 Further ecological information:

AOX-Value: The product contains about <2% organically bound halogen.
The product is mobile in aqueous environment. Do not let product contaminate drains, surface water or ground water

13. DISPOSAL CONSIDERATIONS

13.1 Appropriate disposal / Product:

Disposal with the normal waste is not allowed. Special disposal according to local regulations is required. Do not empty into drains. Contact with the waste management company.

13.2 Waste codes / waste designations according to EWC / AVV:

For this product currently no waste codes according the European Waste List are established. Waste codes should be defined in consultation with the regional waste management company.

13.3 Packaging:

Completely emptied packaging may be reused after proper cleaning or supplied to local recycling facilities. Recommended cleaning agent: Soapy water or alkaline cleaning agent. Unclean packaging or packaging's which cannot be cleaned: Dispose as the product itself.

14. TRANSPORT INFORMATION

14.1 Land transport (ADR/RID/GGVSE): not applicable

Official transport designation:

Class:

Classification Code:

UN-No.:

Packing group:

Hazard label:

Tunnel restriction code:

Special provisions:

14.2 Sea transport (IMDG-Code/GGVSee): not applicable

Proper Shipping Name:

Class:

UN-No.:

Packing group:

EmS:

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Marine Pollutant:
Special provisions:

14.3 Air transport (ICAO-IATA/DGR): not applicable

Proper Shipping Name:
Class:
UN-No.:
Packing group:
Special provisions:

15. REGULATORY INFORMATION

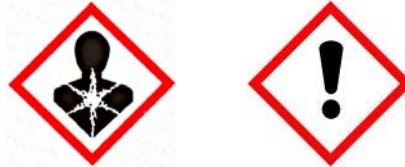
15.1 EU regulations Chemical Safety Assessment:

Labelling (Regulation (EC) No 1272/2008)

Hazard components for labelling:

di-Sodium tetraborate decahydrate CAS-Nr.: 1303-96-4

Gefahrenpiktogramme:



Signal words: Danger

Hazard statements: H360FD May damage fertility. May damage the unborn child
H319 Causes serious eye irritation

Precautionary statements: P202 Do not handle until all safety precautions have been read and understood
P281 Use personal protective equipment as required.
P308 + P313 If exposed or concerned get medical advice/attention.
P305 + P351 + P338: If in Eyes rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P501 Dispose of contents/containers in accordance with local regulation

Hazard components for labelling:
di-Sodium tetraborate decahydrate CAS-Nr.: 1303-96-4

Other EU regulations:
Information on the Directive 1999 / 13 / EC on the limitation of emissions
volatile organic compounds (VOC - RL):
Volatile organic compounds (VOC): none

15.2 National regulations (Germany)

Restrictions of occupation:
Störfallverordnung (12. BImSchV):

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not applicable

Wassergefährdungsklasse (water hazard class):

WGK 1 (according VwVwS): slightly hazardous for water

Technische Anleitung Luft (TA – Luft): n.a.

Other regulations, restrictions and prohibition regulations:

Occupation: Maternity Protection Directive and Youth Protection Act for the protection against hazardous materials must be observed.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3:

| | |
|--------|--|
| H360FD | May damage fertility. May damage the unborn child. |
| H319 | Causes serious eye irritation |

Full text of R-phrases referred to under sections 2 and 3:

| | |
|-----|------------------------------------|
| R36 | Irritating to eyes and skin |
| R60 | May impair fertility |
| R61 | May cause harm to the unborn child |

Training advice:

Provide adequate information, instruction and training for operators.

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.

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