SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
STONE OIL clear and coloured
Art. No. 2100, 21001

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses
Product Categories [PC] Coatings and paints, fillers, putties, thinners

1.3 Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor)
BIOFA Naturprodukte W.Hahn GmbH
Street : Dobelstr.22
Postal code/ city : D-73087 Bad Boll
Telephone : +49 (0) 7164-9405-0
Telefax : +49 (0) 7164-9405-94
Information contact :
Respondent department: product safety department
Contact: Mr. Andrew Beuttenmüller
E-mail address of the competent person responsible for the SDS: a.beuttenmueller@biofa.de

1.4 Emergency telephone number
During office time 7:30 to 16:30: +49 (0) 7164-9405-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard statements
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P102 Keep out of reach of children.
P103 Read label before use.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance to locally applicable legal regulations.

2.3 Other hazards

Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.
Results of PBT and vPvB assessment: Not applicable.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Hazardous ingredients

- NAPHTHA (PETROLEUM), HYDROTREATED HEAVY; EC No.: 265-150-3; CAS No.: 64742-48-9
  - Weight fraction: ≥ 55 - < 60 %
  - Classification 1272/2008 [CLP]: Asp. Tox. 1; H304

- ZINC OXIDE; EC No.: 215-222-5; CAS No.: 1314-13-2
  - Weight fraction: ≥ 1 - < 2,5 %
  - Classification 1272/2008 [CLP]: Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Immediately remove all contaminated clothing.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Clean with detergents. Avoid solvent cleaners. In case of skin reactions, consult a physician.

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. If necessary remove contact lenses and continue to flush with plenty of clean, fresh water.

After ingestion

Call a physician immediately. Put victim at rest, cover with a blanket and keep warm. Do NOT induce vomiting. If vomiting occurs, be sure to avoid choking. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
alcohol resistant foam
Carbon dioxide (CO2)
Water spray
Extinguishing powder

Unsuitable extinguishing media
 Full water jet

5.2 Special hazards arising from the substance or mixture
"Fire will produce dense black smoke. Exposure to danger decomposition products may cause a health hazard. " In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2) Nitrogen oxides (NOx)

5.3 Advice for firefighters
Use suitable breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. Provide adequate ventilation. Avoid inhalation of vapours. Wear breathing apparatus if exposed to vapours/dusts/aerosols. See protective measures under point 7 and 8.

6.2 Environmental precautions
Do not allow to enter into surface water or drains. If the product contaminates drains, lakes, rivers or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up
For cleaning up
Larger amounts have to be pumped out. Contain and collect small spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections
See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Wear anti-static footwear and clothing Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Use only antistatically equipped (spark-free) tools. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this mixture. Avoid inhalation of dust from sanding. When using do not eat, drink, smoke, sniff. Wear personal protection equipment (refer to section 8). Keep container tightly closed. Never use pressure to empty container. Keep/Store only in original container. Comply with health and safety regulations. Do not allow to enter into surface water or drains.

Protective measures

Measures to prevent fire
Vapours are heavier than air, spread along floors and form explosive mixtures with air. Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local regulations.

**Hints on joint storage**
- Keep away from: Alkali (lye). Acid Oxidising agent
- Storage class: 10
- Storage class (TRGS 510): 10

**Further information on storage conditions**
- Observe label and technical data sheet precautions. Keep only in the original container in a cool, well-ventilated place.
- Protect against Heat. Frost. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from sources of ignition. - No smoking. Only allow access to authorised staff.

**7.3 Specific end use(s)**
- Primer and finishing coat for absorbent mineral floors indoors.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**
- NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9
- Limit value type (country of origin): TRGS 900 (D)
- Limit value: 600 mg/cm$^3$
- Version: 8.2

**8.2 Exposure controls**

**Appropriate engineering controls**
- Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation or good general extraction. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Personal protection equipment**
- Safety data sheet of raw material suppliers or taken by accredited Laboratories or have been determined internally

**Eye/ face protection**
- Suitable eye protection: Eye glasses with side protection

**Skin protection**
- After cleaning apply high-fat content skin care cream.

**Hand protection**
- Tested protective gloves must be worn DIN EN 374
- Breakthrough times and swelling properties of the material must be taken into consideration.
- By long-term hand contact Suitable material: Butyl caoutchouc (butyl rubber)
  - Thickness of the glove material: 0.7 mm
  - Breakthrough time (maximum wearing time): > 480 min.
- By short-term hand contact Suitable material: NBR (Nitrile rubber)
  - Thickness of the glove material: 0.4 mm
  - Breakthrough time (maximum wearing time): > 120 min.

**Body protection**
- Personnel should wear impermeable and antistatic protective work clothing.
- Recommended material: Natural fibres (e.g. cotton), heat-resistant synthetic fibres
Respiratory protection
Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, insufficient exhaust, prolonged exposure aerosol or mist formation.
Suitable respiratory protection apparatus:
Combination filtering device (EN 14387), Particle filter device (DIN EN 143).
Self-contained respirator (breathing apparatus) (DIN EN 133).
Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3: maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.).
Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 20 times the exposure limit.

Environmental exposure controls
See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: liquid;
Colour: Depending on colour

Odour
characteristic

Odour threshold
Not determined

Safety relevant basis data
Melting point/melting range: No data available
Initial boiling point and boiling range: (1013 hPa) > 180 °C
Decomposition temperature: No data available
Flash point: > 65 °C DIN EN ISO 1523
Ignition temperature: > 200 °C
Lower explosion limit: ca. 0.6 Vol-%
Upper explosion limit: ca. 7 Vol-%
Vapour pressure: (50 °C) ca. 4 hPa
Density: (20 °C) 0.888 - 0.89 g/cm³ DIN 53217
Solvent separation test: (20 °C) No data available
Water solubility: insoluble
pH: not applicable
Flow time: (20 °C) < 50 s DIN-cup 4 mm
Solid content: 40 - 45 Wt %
Solvent content: 55 - 60 Wt %
Maximum VOC content (EC): 55 - 60 Wt %
Maximum VOC content (Switzerland): 55 - 60 Wt %

Self-ignition: Product is not self-igniting.
Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Relative density: Not determined
SECTION 10: Stability and reactivity

10.1 Reactivity
No dangerous reactivity under recommended usage, handling and storage.

10.2 Chemical stability
Stable under recommended usage, storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions
Materials soiled with product such as cleaning rags, tissues and protective clothing, may ignite spontaneously a few hours later. To avoid the risks of fires, all contaminated materials should be placed in a closed metal container soaked with water.

10.4 Conditions to avoid
Thermal decomposition can lead to the escape of irritating gases and vapours.

10.5 Incompatible materials
Alkali (lye). Acid Oxidising agent.

10.6 Hazardous decomposition products
By combustion and thermal decomposition at high temperatures, the following chemicals can be produced: Carbon dioxide. Carbon monoxide. Nitrogen oxides (NOx). carbon black.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

11.1.1 Acute oral toxicity
Parameter : LD50 ( NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9 )
Exposure route : Oral
Species : Rat
Effective dose : > 5000 mg/kg

Parameter : LD50 ( ZINC OXIDE ; CAS No. : 1314-13-2 )
Exposure route : Oral
Species : Rat
Effective dose : 7950 mg/kg

Acute dermal toxicity

Parameter : LD50 ( NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9 )
Exposure route : Dermal
Species : Rabbit
Effective dose : > 5000 mg/kg

Acute inhalation toxicity

Parameter : LC50 ( NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9 )
Exposure route : Inhalation
Species : Rat
Effective dose : > 49510 mg/m³
Exposure time : 4 h
Parameter : LC50 ( ZINC OXIDE ; CAS No. : 1314-13-2 )
Exposure route : Inhalation
Species : Mouse
Effective dose : 2500 mg/m³

**Irritant and corrosive effects**

**Primary irritation to the skin**

Parameter : Primary irritation to the skin ( NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9 )

The product is: Not an irritant.

**Irritation to eyes**

Parameter : Irritation to eyes ( NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9 )

The product is: Not an irritant.

**Irritation to respiratory tract**

Parameter : Irritation to respiratory tract ( NAPHTHA (PETROLEUM), HYDROTREATED HEAVY ; CAS No. : 64742-48-9 )

The product is: Not an irritant.

**Sensitisation**

Not sensitising.

**Repeated dose toxicity (subacute, subchronic, chronic)**

Toxicological data are not available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

Toxicological data are not available.

**Germ cell mutagenicity**

Toxicological data are not available.

**Reproductive toxicity**

Toxicological data are not available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) algae toxicity**

Parameter : IC50 ( ZINC OXIDE ; CAS No. : 1314-13-2 )

Species : Algae

Evaluation parameter : Acute (short-term) algae toxicity

Effective dose : = 136 mg/l

Exposure time : 72 h

**Chronic (long-term) algae toxicity**

Parameter : NOEC ( ZINC OXIDE ; CAS No. : 1314-13-2 )

Species : Chronic (long-term) algae toxicity

Evaluation parameter : Chronic (long-term) algae toxicity

Effective dose : = 0.011 mg/l

Exposure time : 120 h
12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No indication of bioaccumulation potential.

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects
No data available

12.7 Additional ecotoxicological information
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Do not allow to enter into surface water or drains.

Product/ Packaging disposal
Wastes and empty containers must be classified in accordance with the Waste Catalogue Ordinance.

Waste codes/ waste designations according to EWC/ AVV

Waste code product
08 01 11*

Waste name
Waste paint and varnish containing organic solvents or other dangerous substances.

Waste code packaging
15 01 10*

Waste name
Packaging containing residues of or contaminated by dangerous substances.

Non-contaminated packages may be recycled.
Packaging which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

14.1 UN number
No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name
No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)
No dangerous goods in sense of this transport regulation.

14.4 Packing group
No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards
No dangerous goods in sense of this transport regulation.

**14.6 Special precautions for user**

None

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **EU legislation**
  - Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer. Not applicable
  - Directive 96/82/EC for danger control following severe accidents with dangerous substances Not subject to 96/82/EC

- **Other regulations (EU)**
  - Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
  - VOC-value (in g/L) : 490

- **National regulations**
  - Restrictions of occupation
  - None, if handled according to order.
  - Störfallverordnung
  - Not subject to StörfallVO.
  - Technische Anleitung Luft (TA-Luft)
  - Weight fraction (Number 5.2.5. II) : 55 - 60 %
  - Water hazard class (WGK)
  - Class : 1 (Slightly hazardous to water) Classification according to VwVwS

- **Other regulations, restrictions and prohibition regulations**
  - Betriebssicherheitsverordnung (BetrSichV)
  - No flammable liquid according to BetrSichV.
  - VOC-Regulation (31. BImSchV)
  - VOC product category : Paints and varnishes
  - VOC subcategory of the product : One-pack performance coatings
  - VOC limit value step II (g/L), ready-to-use condition : 500
  - Maximum VOC content (g/L) of the product in a ready to use condition : 490

**Additional information**

- Giscode : Not applicable

**15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

**SECTION 16: Other information**

**16.1 Indication of changes**


**16.2 Abbreviations and acronyms**
None

16.3 Key literature references and sources for data
Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP] Transport regulations according ADR, RID, IMDG, IATA in the current version.
Safety data sheet taken from raw material suppliers or taken by accredited Laboratories or have been determined internally

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]
No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)
- H304: May be fatal if swallowed and enters airways.
- H410: Very toxic to aquatic life with long lasting effects.
- H412: Harmful to aquatic life with long lasting effects.

16.6 Training advice
None

16.7 Additional information
None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.