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

1.1. Product identifier

STOKO PROTECT+

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

Recommended use(s): Cosmetic use.

1.3. Details of the supplier of the safety data sheet

Evonik Industries AG
Consumer Specialties
Bäkerpfad 25
47805 Krefeld
Germany
+49-2151-38-1370
Email address of qualified person: usgq-krefeld@evonik.com

Emergency Number: +49-2151-38-1370
Telefax Number: +49-2151-38-1647

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

No particular hazards known.

2.2. Label elements

*Directive 67/548/EC or Directive 1999/45/EC*

The product is subject to cosmetics regulations.
not subject to compulsory marking

2.3. Other hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

---

3.2. Mixtures

Preparation of fatty substances as a water-in-oil-in-water emulsion

4. FIRST AID MEASURES

4.1. Description of first aid measures

Skin contact: not applicable
Eye contact: Rinse for a prolonged period with plenty of water; if necessary, consult a doctor.
Ingestion
Seek medical advice if feeling unwell.

4.2. Most important symptoms and effects, both acute and delayed
None known

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media: Water mist, foam, carbon dioxide, dry powder

5.2. Special hazards arising from the substance or mixture
None known.

5.3. Advice for firefighters
No special requirements.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Spilled product causes surfaces to become slippery.

6.2. Environmental precautions
Collect with absorbents. Flush small residuals with much water into the drain for subsequent biological waste effluent treatment.

6.3. Methods and material for containment and cleaning up
Take up with absorbent material and dispose of.

6.4. Reference to other sections
For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Safe handling advice: no special requirements

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: no special requirements

7.3. Specific end use(s)
No

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure controls
Hygiene measures: Obey reasonable safety precautions and practise good housekeeping.
Hand protection
General information: not applicable
9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Cream</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Odour</td>
<td>Typical</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>&lt;0.00 °C</td>
</tr>
<tr>
<td>Boiling point/range</td>
<td>100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C (DIN EN 22719)</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Density</td>
<td>Approx. 0.9830 g/cm³ (20.00 °C)</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>(20.00 °C) miscible</td>
</tr>
<tr>
<td>pH</td>
<td>Approx. 6.0 (100.00000 g/l) (20.00 °C)</td>
</tr>
<tr>
<td>Viscosity (dynamic)</td>
<td>Approx. 9,000 mPa.s (20.00 °C)</td>
</tr>
</tbody>
</table>

9.2. Other information

None

10. STABILITY AND REACTIVITY

10.1. Reactivity

See section 10.2.

10.2. Chemical Stability

Stable under usual application conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

To save the product properties, don't expose to temperatures above 40 °C over a long time.

10.5. Incompatible materials

No known incompatibility with other materials.

10.6. Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

General information

A safety evaluation as per the EU Cosmetic Directive was carried out. Based on knowledge of the properties of the components, adverse effects on human health are not to be expected in normal use. The product has proved to be completely harmless to the skin in human trials as well as in practical use.
12. ECOLOGICAL INFORMATION

12.1. Toxicity
Hazardous to the aquatic environment no specific test data available

12.2. Persistence and degradability
Biodegradability Prevent concentrated product from penetrating into waters without biological waste water treatment.

12.3. Bioaccumulative potential
Bioaccumulation no evidence for hazardous properties

12.4. Mobility in soil
Mobility no evidence for hazardous properties

12.5. Results of PBT and vPvB assessment
PBT and vPvB assessment PBT: no vPvB: no Data are expected values based on the composition.

12.6. Other adverse effects
General Information None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Product Dispose of whilst observing local legal regulations, e.g. in a suitable incineration plant.
Uncleaned packaging Undamaged packaging may be responsibly reused after proper cleaning.

14. TRANSPORT INFORMATION

14.1. UN number
see section 14.2.

14.2. UN proper shipping name
Land transport ADR/GGVSEB Not a dangerous good within the meaning of transportation regulations.
Land transport RID/GGVSEB Not a dangerous good within the meaning of transportation regulations.
Inland waterway transport ADN/GGVSEB (Germany) Not a dangerous good within the meaning of transportation regulations.
Safety Data Sheet
in accordance with regulation (EC) 1907/2006

Status: 15.04.2011
Version: 1.1

STOKO PROTECT+

Shipment by sea IMDG/GGVSee
Not a dangerous good within the meaning of transportation regulations.

Air transport ICAO/IATA
Not a a dangerous good within the meaning of transportation regulations.

14.3. Transport hazard class(es)
see section 14.2.

14.4. Packing group
see section 14.2.

14.5. Environmental hazards
if not mentioned in Point 14.2 then it does not apply.

14.6. Special precautions for user
see section 14.2.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
for transport approval see regulatory information

15. REGULATORY INFORMATION

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

National legislation

WGK - Water Hazard Class
(Germany) / Wassergefährdungsklasse
(Deutschland)

Status of Registration

<table>
<thead>
<tr>
<th>REACH (EU)</th>
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<tbody>
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<tr>
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<td>ECL (KOR)</td>
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<tr>
<td>AICS (AUS)</td>
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<td>IECSC (CN)</td>
<td>listed or exempted</td>
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<tr>
<td>PICCS (RP)</td>
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</tr>
</tbody>
</table>

16. OTHER INFORMATION

References

relevant manuals and publications
own examinations
own toxicological and ecotoxicological studies
toxicological and ecotoxicological studies of other manufacturers
SIAR
OECD-SIDS
RTK public files

Places marked by || have been amended from the last version.

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Date of printing: 21.04.2012
STOKO PROTECT+®

Skin Protection

Helps to protect your skin in damp and wet environments.
With repair effect. Stabilises, regenerates and toughens the skin barrier.

Description
STOKO PROTECT+® is a skin protection cream with an innovative formulation concept: thanks to the multiphase emulsion system (W/O/W emulsion), this cream features both protective and regenerative properties. In addition to offering the protective action of a conventional emulsion, STOKO PROTECT+® also helps to stabilise and regenerate the natural skin barrier when it has been damaged by contact with aggressive or irritant substances at work.

The protective action is based on combining the barrier properties of non-polar oils with the skin-toughening tanning agent Hamamelis, which has been achieved in the new galenic system. With its soothing, nourishing and moisturising ingredients, as well as the camomile active ingredient Bisabolol, STOKO PROTECT+® features outstanding regenerative properties.

Product Description
White, perfume- and silicone-free soft cream; multiple emulsion type (W/O/W).

Features and Benefits

<table>
<thead>
<tr>
<th>Product Features</th>
<th>Benefits</th>
</tr>
</thead>
</table>
| innovative formulation (optimised lipid composition in multiple emulsion structure W/O/W) | • superior protective action and at the same time toughens the skin barrier  
• enjoys high cosmetic acceptance |
| contains Bisabolol, an ingredient of camomile                                     | • supports skin regeneration                                                                                                                                                                 |
| perfume- and colourant-free, and assessed in accordance with the principles of HACCP | • does not impair the wholesomeness and quality of food                                                                                                                                 |
| rapidly absorbed                                                                 | • does not leave any unpleasant or uncomfortable residues on the skin                                                                                                                                 |
| ease of application                                                              | • suitable for both hands and face, and is also ideal for use on the entire body                                                                                                                                 |
| with high-quality ingredients                                                     | • very good skin compatibility                                                                                                                                                                 |
| with natural tanning agent Hamamelis and compatible with the most common types of materials for gloves | • can also be used under personal protective equipment (including gloves)                                                                                                                                 |
| in conformity with alcohol based disinfection products                           | • can also be used in hygiene-sensitive areas                                                                                                                                 |
| has no adverse effects on work vulcanising rubber or painting surfaces           | • it can therefore be used in a whole range of production processes                                                                                                                                 |

Technical Information
**Area of Application**

STOKO PROTECT+® toughens the natural skin barrier and effectively protects the skin where there is frequent contact with water or water-based workplace substances (water-based cooling lubricants, water-based solutions of dyestuffs, acids, alkaline solutions, salts, cleaning agents and disinfectants, cement, lime and fertilisers), as well as when wearing occlusive protective clothing.

NB: Using skin care products does not release you from your duty to take the prescribed protective measures.

**Instructions for Use**

Wash and dry the skin thoroughly before each application. Then carefully rub STOKO PROTECT+® on to the areas of skin at risk, including between the fingers and on the fingernails. It should always be used before starting work and after any lengthy breaks.

STOKO PROTECT+® can be used on the face as well.

**Qualitative Composition**

AQUA (WATER), PARAFFINUM LIQUIDUM, ISOPROPYL PALMITATE, CETEARYL ALCOHOL, POLYGLYCERYL-2 DIPOLYHYDROXYSTEARATE, PROPYLENE GLYCOL, CETEARYL GLUCOSIDE, C12-15 ALKYL BENZOATE, STEARIC ACID, BISABOLOL, PETROLATUM, PHENOXYETHANOL, PEG-30 DIPOLYHYDROXYSTEARATE, PEG-40 STEARATE, METHYLPARABEN, HAMAMELIS VIRGINIANA WATER, PROPYLPARABEN, ETHYLPARABEN, ISOBUTYLPARABEN, BUTYLPARABEN, ALCOHOL.

* The ingredient declarations used are in compliance with the International Nomenclature Cosmetic Ingredients (INCI).

**Statutory Regulations**


**Testing the Protective Action**

The product’s protective action was tested using the repetitive, occlusive irritation test* (Evonik Industries AG, Krefeld, Germany). When STOKO PROTECT+® is applied to the skin, the barrier damage caused by the standard irritant sodium lauryl sulphate (determined by means of the transepidermal water loss) is minimal in comparison with rival products [Illustration 1].

**Illustration 1:**
Comparison of the protective effect of various skin protectants using the repetitive, occlusive irritation test. STOKO PROTECT+® demonstrates the best protective action against the standard irritant sodium lauryl sulphate.

*Skin protectant applied twice a day over a period of four days, 10 min. before the noxa.
Assessment on the basis of measuring the TEWL (n=15).

**Testing the Regenerative Effect**

The barrier recovery test** was used to demonstrate the regenerative effect of STOKO PROTECT+® (R&D, Evonik Industries AG, Krefeld, Germany). The barrier damage caused by the standard irritant sodium lauryl sulphate, which can be seen from the increased release of water through the skin (TEWL) and the severe skin irritation (visual score), is largely counteracted by applying STOKO PROTECT+® (Illustrations 2a and 2b).
Glove compatibility
Tests to determine the compatibility of STOKO PROTECT+® with the most common forms of materials used in gloves (latex, nitrile and neoprene) were carried out on the basis of the ASTM standard D-412 (measuring the tensile strength; Ansell Science & Technology, Massillon, Ohio, USA). STOKO PROTECT+® has not been found to have any statistically significant effect on the tensile strength of the materials used in gloves after they have been worn for the period usual in practice of less than 2 hours.

<table>
<thead>
<tr>
<th>Material</th>
<th>Product</th>
<th>30 min</th>
<th>120 min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latex</td>
<td>Ansell Medical Natural*</td>
<td>n.s.</td>
<td>n.s.</td>
</tr>
<tr>
<td>Nitrile</td>
<td>Ansell Medical Nitra Touch™</td>
<td>n.s.</td>
<td>n.s.</td>
</tr>
<tr>
<td>Neoprene</td>
<td>Ansell Derma Prene*</td>
<td>n.s.</td>
<td>n.s.</td>
</tr>
</tbody>
</table>

*n.s.: not significant (p>0.05)

Quality Assurance
All of our products meet the bacterial purity standards as they apply to medicines for external use (as defined by PhEur).

< 10² reproducible germs / g product.

Verification tests in this respect are a regular feature of our quality assurance procedures.

Storage Information
STOKO PROTECT+® can be stored in an unopened container at room temperature for at least 30 months. Shelf life after opening: see indication on packaging.

First Aid
In the event of accidental eye contact with the product, rinse out using water (eye douche, eye irrigation bottle). Consult a doctor if any burning sensation persists.

Additional Information
Expert reports and bibliographies are available upon application.

Packaging Sizes
20 ml tube
100 ml tube
500 ml hard bottle with handpump
1000 ml soft bottle (for all STOKO VARIO® dispensers*)

*Please note that for reasons of trademark protection, only soft bottles from the STOKO® Programme may be used in these dispensers.
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