

Safety Data Sheet

acc. to OSHA HCS



Printing date 04/14/2016

Reviewed on 04/13/2016

1 Identification

- **Product identifier**
- **Trade name:** *KARNDEAN REFRESH*
- **Application of the substance / the mixture** Maintenance product
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Karndean Designflooring
 1100 Pontiac Court
 Export, PA 15632/USA
 D 888-266-4343
 F 800-887-7043
 e-mail: info@karndean.com
- **Manufacturer, for North America & Canada:**
 Schutz NA
 4701 Bath St 46, Philadelphia PA 19137, USA
 Contact: Sam Jamison
 Tel.: 001 / 877 272 4889
 Mobile: 001 / 215 510 7874
 E-Mail: sam@schutzNA.com
- **Information department:**
 For North America & Canada:
 Schutz NA (Manufacturer)
 E-Mail: sam@schutzNA.com
- **Emergency telephone number:**
 For Hazardous Materials [or Dangerous Goods]
 Incident, Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night
 1-800-424-9300 CCN802236

2 Hazard(s) identification

- **Classification of the substance or mixture**
 Flam. Liq. 4 H227 Combustible liquid.
- **Label elements**
- **GHS label elements**
 The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms** Void
- **Signal word** Warning
- **Hazard statements**
 Combustible liquid.
- **Precautionary statements**
 Keep away from flames and hot surfaces. – No smoking.
 Wear protective gloves / eye protection / face protection.
 In case of fire: Use for extinction: CO2, powder or water spray.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **NFPA ratings (scale 0 - 4)**

 Health = 0
 Fire = 2
 Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**

 Health = 0
 Fire = 2
 Reactivity = 0

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

111-90-0	2-(2-ethoxyethoxy)ethanol	1-5%
52-51-7	bronopol (INN)	<0.1%

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** No special measures required.
- **After skin contact:**
Rinse with warm water.
After each cleaning use treatment creams, for very dry skin greasy ointments.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture** Danger of toxic pyrolysis products.
- **Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Avoid contact with the eyes and skin.
Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:**
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Follow instructions on the label and in the Technical Product Information Sheet.
Avoid contact with the eyes and skin.
Store in cool, dry place in tightly closed receptacles.
- **Information about protection against explosions and fires:**
No special precautions are necessary if used correctly.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in unopened original receptacles.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Store under lock and key and out of the reach of children.
Store receptacle in a well ventilated area.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

Components with limit values that require monitoring at the workplace:

111-90-0 2-(2-ethoxyethoxy)ethanol

WEEL Long-term value: 25 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not eat, drink, smoke or sniff while working.
Be sure to clean skin thoroughly after work and before breaks.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.
To avoid skin problems reduce the wearing of gloves to the required minimum.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
Nitrile rubber, NBR

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Where there is a danger of the eyes coming into contact with splashes of liquid (i.e. when refilling larger quantities), safety goggles according to EN 166 (i.e. goggles with side shields) are recommended.

- **Body protection:** Not required.

- **Limitation and supervision of exposure into the environment**

Follow instructions for use, dosage and waste disposal.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	Whitish
Odor:	Pleasant
Odor threshold:	Not determined.

- pH-value at 20 °C (68 °F): 8.7

- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- Flash point: >61 °C (>142 °F) (Seta Flash Closed Cup)

- Flammability (solid, gaseous): Undetermined.

- Decomposition temperature: Not determined.

- Auto igniting: Product is not selfigniting.

- Danger of explosion: Product does not present an explosion hazard.

- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

- Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

- Density at 20 °C (68 °F): 1.027 g/cm³ (8.57 lbs/gal)

- Relative density: Not determined.

- Vapor density: Not determined.

- Evaporation rate: Not determined.

- **Solubility in / Miscibility with**

Water: Fully miscible.

- Partition coefficient (n-octanol/water): Not determined.

- **Viscosity:**

Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	23 s (ISO 3 mm)

- **Solvent content:**

VOC content ASTM D3960: 3.0 %

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• Other information

No further relevant information available.

10 Stability and reactivity

- **Reactivity** see section "Possibility of hazardous reactions".
- **Chemical stability** No information available.
- **Thermal decomposition / conditions to be avoided:**
Protect from frost.
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No dangerous reactions known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No data available.
- **on the eye:** No data available.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

• Carcinogenic categories

• IARC (International Agency for Research on Cancer)

67-63-0 | propan-2-ol

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• NTP (National Toxicology Program)

None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Undetermined.
- **Persistence and degradability**
Elimination of contained polymers is possible through precipitation or flocculation.
The solvent is biodegradable.
The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** Undetermined.
- **Mobility in soil** No further relevant information available.

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- **Ecotoxicological effects:**

- **Behavior in sewage processing plants:**

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. Before allowing large quantities to be fed into sewage plants, obtain the approval of the responsible authorities.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must be specially treated adhering to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- **Uncleaned packagings:**

- **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**

- **DOT, ADR, ADN, IMDG, IATA** Void

- **UN proper shipping name**

- **DOT, ADR, ADN, IMDG, IATA** Void

- **Transport hazard class(es)**

- **DOT, ADR, ADN, IMDG, IATA**

- **Class** Void

- **Packing group**

- **DOT, ADR, IMDG, IATA** Void

- **Environmental hazards:** Not applicable.

- **Special precautions for user** Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **UN "Model Regulation":**

Void

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

• Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

107-21-1 ethanediol

67-63-0 propan-2-ol

• TSCA (Toxic Substances Control Act):

7732-18-5 water, distilled, conductivity or of similar purity

111-90-0 2-(2-ethoxyethoxy)ethanol

78-51-3 tris(2-butoxyethyl) phosphate

107-21-1 ethanediol

Bis(2-ethylhexyl)-sulfosuccinat, Na-Salz

64-17-5 ethanol

2682-20-4 2-methyl-2H-isothiazol-3-one

2634-33-5 1,2-benzisothiazol-3(2H)-one

67-63-0 propan-2-ol

• Proposition 65

• Chemicals known to cause cancer:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

• Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

• Chemicals known to cause developmental toxicity:

64-17-5 ethanol

• Cancerogenity categories

• EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

107-21-1 ethanediol

A4

64-17-5 ethanol

A4

• NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard pictograms

Void

• Signal word

Warning

• Hazard statements

Combustible liquid.

• Precautionary statements

Keep away from flames and hot surfaces. – No smoking.

Wear protective gloves / eye protection / face protection.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
Other regulations (EC): Regulation (EC) No 648/2004
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Training hints ---**
- **Recommended restriction of use ---**
- **Contact:** Dr. Olaf Janßen
- **Date of preparation / last revision** 04/14/2016 / -
- **Abbreviations and acronyms:**
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 LC50: Lethal concentration, 50 percent
 BEI: Biological Exposure Limit
 Flam. Liq. 4: Flammable liquids – Category 4

- *** Data compared to the previous version altered.**

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