

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.8.2010

Revision: 20.8.2010

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Nano-ProTek Coating Part B
- **Application of the substance/the preparation:** Chemical Coating
- **Manufacturer/Supplier:**

DEK International a business of  
DTG International GmbH  
Hardturmstrasse 105  
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### 2 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product has to be labeled due to the calculation procedure of international guidelines.  
Irritating to eyes and skin, flammable.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 – 4)**  
Health = 2  
Fire = 3  
Reactivity = 0
- **HMIS-ratings (scale 0 – 4)**  
Health = 2  
Fire = 3  
Reactivity = 0

### 3 Composition/information of ingredients

- **Chemical characterization:**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:**
- CAS: 64-17-5 ethanol >60%

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### 4 First aid measures

- **General information:**
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:** Flush skin with plenty of water for (using soap, if available). If symptoms develop and persist, get medical attention.
- **After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If symptoms develop and persist, get medical attention..
- **After swallowing:** DO NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**
  - Carbon dioxide
  - Fire-extinguishing powder
  - Alcohol resistant foam
  - Water haze

For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water. Cool containers with flooding quantities of water until well after fire is out.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**

Wear self-contained respiratory device.

### 6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation. Wear protective clothing. See section 8 for proper protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Prevent further leakage or spillage if safe to do so. Wear suitable protective clothing, gloves and eye/face protection.
- **Measures for cleaning/collecting:**

Absorb spill with an inert material (i.e. vermiculite, sand, diatomite, soil, etc.). Sweep or scoop material into proper containers for disposal. Dispose of the material collected according to regulations.

### 7 Handling and storage

- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose pouches to heat, sparks, or open flames.
- **Information about protection against explosions and fires:**

No special measures are required.

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- **Requirements to be met by storerooms and receptacles:**  
Store in cool, dry conditions in well sealed receptacles. Keep away from heat, sparks, flames, and from sources of ignition.  
**Information about storage on one common storage facility:** Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store near perchlorates, peroxides, chromic acid, or nitric acid.
- **Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:**  
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
- **Components with limit values that require monitoring at the workplace**  
64-17-5 ethanol
- **WEL Long-term value:** 1920 mg/m<sup>3</sup>, 1000 ppm
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:** Avoid contact of the product with the skin and eyes. Wear appropriate protective clothing, gloves, and safety glasses to prevent skin and eye exposure.
- **General protective and hygienic measures** Keep away from foodstuffs.  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes.
- **Breathing Equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Wear appropriate protective gloves to prevent skin exposure. The glove material has to be impermeable and resistant to the product/the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
- **Material of gloves:**  
Nitrile rubber, NBR  
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 cannot 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:** Safety glasses are recommended if possibility of liquid splashes exists.

### 9 Physical and chemical properties

- **General information:**  
**Form:** Impregnated wipe  
**Colour:** Clear liquid in polyester wipe  
**Odour:** Mild characteristic odor
- **Change in condition:**  
**Melting point/Melting range:** N/A  
**Boiling point/Boiling range:** N/A
- **Flash point:** 57 Degrees F (Ethanol)

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- **Auto-igniting:** 685 Degrees F (Ethanol)
- **Danger of explosion: Lower:** 3.3 (Ethanol) **Upper:** 18.0 (Ethanol)
- **Density:** 1.0
- **Solubility in /Miscibility with water:** >60%
- **pH-value:** N/A

### 10 Stability and reactivity

- **Thermal decomposition/ conditions to be avoided:**  
Ignition sources, excess heat.
- **Materials to be avoided:** Strong oxidizing agents, strong acids, acid chlorides, active metals, alkali metals, aluminum, ammonia, halogens, hydrazine, nitric acid, peroxides, isocyanates, aliphatic amines, sodium, caustics (e.g. ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium hydroxide), acid anhydrides, calcium hypochlorite, cyanuric chloride, chromyl chloride, nitrosyl perchlorate, diethyl zinc, bromine pentafluoride, perchloric acid, silver nitrate, chromic anhydride, mercuric nitrate, phosphorus trioxide, potassium-tert-butoxide, magnesium perchlorate, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, Oxidants (such as barium perchlorate, bromine, chlorine, hydrogen peroxide, lead perchlorate, perchloric acid, sodium hypochlorite), acetyl bromide, alkyl aluminum salts, beryllium dihydride, carbon tetrachloride + metals, chloroform + heat, chloroform + sodium hydroxide, Attacks some forms of plastics, rubbers, and coatings., tetrachlorosilane + water, acetyl chl.
- **Dangerous reactions:** Has not been reported.
- **Dangerous decomposition products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide

### 11 Toxicological information

- **Acute toxicity:**  
**Primary irritant effect:**  
**on the skin:** Causes skin irritation.  
**on the Eye:** May cause eye irritation, Flammable
- **Sensitization:**
- **Additional toxicological information:**  
The product shows the following dangers according to internationally approved calculation methods for preparations:  
Irritant  
Flammable

### 12 Ecological information

- **General notes:**
- **Ecotoxicity:** When spilled on land it is apt to volatilize, biodegrade, and leach into the ground water, but no data on the rates of these processes could be found. Its fate in ground water is unknown. When released into water it will volatilize and probably biodegrade. It would not be expected to adsorb to sediment or bioconcentrate in fish.
- **Environmental:** When released to the atmosphere it will photodegrade in hours (polluted urban atmosphere) to an estimated range of 4 to 6 days in less polluted areas.
- **Physical:** No information available.

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### 13 Disposal considerations

- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

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- **AIR: Excepted Quantities**
- **GROUND: CONSUMER COMMODITIES (ORM-D)**

### 15 Regulatory information

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- **SARA:** None above reporting the minimus
- **Section 313 (Specific toxic chemical listings):** None of the ingredients listed.
- **TSCS (Toxic Substances Control Act):** All ingredients listed.
- **Proposition 65:** None of the ingredients listed.
- **Chemicals known to cause cancer:** None of the ingredients listed.
- **Chemicals known to cause reproductive toxicity for females:** None of the ingredients listed.
- **Chemicals known to cause reproductive toxicity for males:** None of the ingredients listed.
- **Chemicals known to cause developmental toxicity:** None of the ingredients listed.
- **Product related hazard information:** Observe the general safety regulations when handling chemicals.

**Hazard symbols:**

Irritant  
Flammable

**Risk phrases:**

Irritating to eyes and skin.

**Safety phrases:**

May cause eye or skin irritation. Wear safety gloves when using product. Harmful if swallowed. Keep out of reach of children. In case of eye or skin contact, rinse thoroughly with water.

### 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.**