



# MATERIAL SAFETY DATA SHEET

## Hallmark Floors NuOil Base Coat

according to Regulation (EC) No. 1907/2006 (REACH)

according to Regulation (EU) No 453/2010

Article No.	062-020-00006	NuOil Base Coat	
Date of print:	8.24.2012	Revision Date: 8.10.2012	EN
Version:	0000070001	Date of Issue: 8.10.2012	Page 1/14

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

**1.1 Product identifiers:**

Article no. (manufacturer/supplier):	062-020-00006
Identification of the substance or preparation:	NuOil Base Coat mat colorless

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

**Relevant identified uses**  
 Lacquer and Coating Systems  
 Coatings and paints, fillers, putties, thinners

**1.3 Details of the supplier of the safety data sheet**

<b>Supplier (manufacturer/importer/downstream user/distributor):</b> Friedrich Klumpp GmbH Dornbirner Str.23 D-70469 Stuttgart	Phone: +49 711 98184-310 Fax: +49 711 850328 E-Mail: sdb@klumpp-coatings.com
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**Dept. responsible for information:**

Labor	
E-mail (competent person):	sdb@klumpp-coatings.com

**1.4 Emergency telephone number**

Emergency telephone:	+86 (0)21 50463530
Only available during office hours.	8:30 am ~ 5:00pm (Beijin tme )

### SECTION 2 - HAZARDOUS IDENTIFICATION

**2.1 Classification of the substance or mixture**

**Classification according to EC regulation 1272/2008 (CLP):**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Skin Irrit. 2/H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1/H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1/H317	Respiratory or skin sensitisation:	May cause an allergic skin reaction.

**Classification according to Directive 67/548/EEC or 1999/45/EC**

The preparation is dangerous in the sense of Directive 1999/45/EC.

Xi; R36/38-41	Irritating to eyes and skin. Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.aquatic environment.
R52-53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.



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### SECTION 2 - HAZARDOUS IDENTIFICATION (CONT.)

#### 2.2 Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

##### LABELLING (CLP)

**Hazard pictograms:** Corrosive, Danger

##### Hazard statements:

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.

##### Safety precautions:

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P501 Contents / container to carry industrial incinerator  
contains: oxybis(methyl-2,1-ethanediyl) diacrylate

##### Supplemental Hazard information (EU):

LABELLING (67/548/EEC OR 1999/45/EC) Xi Irritant

##### Hazard statements:

36/38  
41  
43  
52/53



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### SECTION 2 - HAZARDOUS IDENTIFICATION (CONT.)

#### 2.2 Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

##### Safety Precautions:

24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39	Wear suitable gloves and eye/face protection.
38	In case of insufficient ventilation, wear suitable respiratory equipment.
51	Use only in well-ventilated areas.
61	Avoid release to the environment. Refer to special instructions /safety data sheet.
23	Do not breathe vapour
contains:	oxybis(methyl-2,1-ethanediy) diacrylate Glycerol, prproxylated, esters with acrylic acid

##### Special provisions concerning the labelling of certain mixtures:

#### 2.3 Other Hazards

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

##### chemical characterization (preparation)

Description: Coatings and paints, fillers, putties, thinners.

##### Hazardous ingredients:

#### Classification according to EC regulation 1272/2008 (CLP)

EC No:	REACH No:	% by weight
CAS No.:	Chemical name:	Remark:
INDEX no.:	classification:	
260-754-3	01-2119484629-21	12,5 - 20
57472-68-1	oxybis(methyl-2,1-ethanediy) diacrylate Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317	
	Acrylic resin	12,5 - 20
	Eye Irrit. 2 H319	
918-481-9	01-2119457273-39	
64742-48-9	Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1 H304	



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### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS (CONT.)

500-114-5	01-2119487948-12	2,5 - 5
52408-84-1	Reaction products of glycerol and methyloxirane and acrylic acid Eye Irrit. 2 H319 / Skin Sens. 1 H317	

217-164-6		0,5 - 1
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317	

#### Classification according to Directive 67/548/EEC or 1999/45/EC

EC No:	REACH No:	% by weight
CAS No.:	Identification of the hazard:	Remark:
INDEX no.:	classification:	
260-754-3	01-2119484629-21	12,5 - 20
57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate Xi;; R38-41 / R43	
	acrylic resin Xi;; R36	12,5 - 20
500-114-5	01-2119487948-12	2,5 - 5
52408-84-1	Glycerol, prpoxylated, esters with acrylic acid Xi;; R36 / R43	
204-337-6	01-2119488052-40	0,5 - 1
119-61-9	benzophenone N;; R51-53	
217-164-6		
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine Xn;; R20 / Xi;; R41 / R43 / N;; R50-53	< 0,5

#### Additional information

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.



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### SECTION 4 - FIRST-AID MEASURES

#### 4.1 Description of first aid measures:

##### General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

##### After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

##### In case of skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

Do not use solvents or thinners. In case of skin contact:

Conditions to avoid UV-radiation/sunlight.

Causes mild skin irritation.

##### In case of eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice.

##### After ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm.

Do not induce vomiting.

##### In case of skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

Do not use solvents or thinners.

#### 4.2 Most important symptoms and effects, both acute and delayed:

In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.3 Indication of any immediate medical attention and special treatment needed

### SECTION 5 - FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media:

Alcohol resistant foam, Carbon dioxide, Powder, spray mist, (water)

##### Extinguishing media which must not be used for safety reasons:

Strong water jet



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### SECTION 5 - FIREFIGHTING MEASURES (CONT.)

**5.2 Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:**  
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

**5.3 Special protective equipment for firefighters:**  
Provide a conveniently located respiratory protective device.

**Additional information:**

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**  
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

**6.2 Environmental measures**  
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up**  
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

**6.4 Reference to other sections**  
Observe protective provisions (see chapter 7 and 8).

### SECTION 7 - HANDLING AND STORAGE

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

**7.1 Precautions for safe handling**  
**Advices on safe handling**

Use only in well-ventilated areas. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.



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### SECTION 7 - HANDLING AND STORAGE (CONT.)

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Requirements for storerooms and containers:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

##### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

##### Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control Parameters:

##### Additional information

TWA (EC): Occupational exposure limit value

STEL (EC): Short-term occupational exposure limit value

#### 8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

##### OCCUPATIONAL EXPOSURE CONTROLS:

##### Respiratory protection:

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.



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### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT.)

#### 8.2 Hand protection:

**(cont.)** For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber). Thickness of the glove material: > 0,4 mm ; Penetration time (maximum wearing period): > 480 min. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: DIN EN 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye protection:

Wear closely fitting protective glasses in case of splashes.

#### Body protection:

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. refer to chapter 7. No further action is necessary.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

##### Appearance:

**Physical state:** liquid

**Color:** refer to label

**Odor:** characteristic





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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

9.1 [cont.]	Safety relevant basis data	Unit	Method:	Remark
	Flash Point (°C):	101 °C		
	Ignition temperature (AIT):	°C		
	Lower explosion limit:	Vol-%		
	Upper explosion limit:	Vol-%		
	Vapor pressure at 20 °C:	mbar		
	Density at 20 °C:	1,11 g/cm <sup>3</sup>		
	Water solubility (g/l):			
	pH at 20 °C:	-		
	Viscosity at 20 °C	39 s 6 mm	DIN 53211	
	Solvent separation test (%):	<3 %		
	Solid content (%):	99 % by weight		
	Solvent content:			
	Organic solvents:	1 % by weight		
	Water:	0 % by weight		
9.2	Other information:			

### SECTION 10 - STABILITY AND REACTIVITY

- 10.1 **Reactivity**
- 10.2 **Chemical stability**  
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.
- 10.3 **Possibility of hazardous reactions**  
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10.4 **Conditions to avoid**  
This preparation contains material instable under the following conditions: Heatin, strong ultraviolet radiation. An exotherm polymerization of the product may thereby be caused. Avoid unintended contact with it. Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5 **Incompatible materials**
- 10.6 **Hazardous decomposition products**  
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.



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### SECTION 11 - TOXICOLOGICAL INFORMATION

No data on preparation itself available.

#### 11.1 Information on toxicological effects

##### Acute toxicity

Toxicological data are not available.

##### Irritant and corrosive effects

Toxicological data are not available.

##### Sensitisation

Toxicological data are not available.

##### Specific target organ toxicity

Toxicological data are not available.

##### Aspiration hazard:

Toxicological data are not available.

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

Toxicological data are not available.

##### Practical experience

Other observations:

The fractions of acrylic resin in the preparation have an irritant effect. Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc.. Cases of allergic skin reactions have been observed. Liquid splashes can lead to irritations of the eyes. Inhaling of droplets in the air or aerosols may lead to irritations of the respiratory tract. Ingestion may cause nausea, weakness and affect the central nervous system.

##### Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2. There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.



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### SECTION 12 - ECOLOGICAL INFORMATION

#### Overall evaluation:

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

#### 12.1 Toxicity

No information available.

#### Long-term Ecotoxicity

Toxicological data are not available.

#### 12.2 Persistence and degradability

Toxicological data are not available.

#### 12.3 Bioaccumulative potential

Toxicological data are not available.

#### Bioconcentration factor (BCF):

Toxicological data are not available.

#### 12.4 Mobility in soil

Toxicological data are not available.

#### 12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 10.6 Other adverse effects

### SECTION 13 - DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Appropriate disposal / Product

##### Recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

##### Control report for waste code/ waste marking according to EAKV:

**080111:** waste paint and varnish containing organic solvents or other dangerous substances

##### Contaminated packaging:

##### Recommendation:

Cleaned containers may be recycled. Vessels not properly emptied are special waste.



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### SECTION 14 - TRANSPORT INFORMATION

No dangerous good in sense of these transport regulations

- 14.1 UN-No.:**
- 14.2 UN proper shipping name**
- 14.3 Transport hazard class(es)**
- 14.4 Packing Group:**
- 14.5 Environmental hazards:**  
Land transport (ADR/RID)  
Marine pollutant:
- 14.6 Special precautions for user**  
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
Advices on safe handling: see parts 6 - 8
- Further remarks:**
- Land transport (ADR/RID)**  
Tunnel restriction code: -
- Sea transport (IMDG)**  
EmS-No.:
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
not applicable



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### SECTION 15 - REGULATORY INFORMATION

No dangerous good in sense of these transport regulations

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

##### EU legislation

**Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).**

VOC-value (in g/l) ISO 11890-2: 7

VOC-value (in g/l) ASTM D 2369: 7

##### according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. [Cat. A/d]): 400 g/l (2007) / 300 g/l (2010).

This product contains max 7 g/l VOC.

##### National regulations

##### Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Giscode:

##### Substance/product listed in the following inventories:

Canada: Listed in DOMESTIC SUBSTANCE LIST (DSL)

**IECSC (China):** All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.

**USA:** Listed in TOXIC SUBSTANCES CONTROL ACT (TSCA)

#### 15.2 Chemical Safety Assessment

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



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### SECTION 16 - OTHER INFORMATION

#### Relevant R-and H-phrases (Number and full text):

Skin Irrit. 2 / H315	Skin corrosion/irritation:	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation:	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Xi; R38-41	Irritant	Irritating to skin. Risk of serious damage to eyes.
R43		May cause sensitization by skin contact.
N; R51-53	Dangerous for the environment	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Xn; R20	Harmful	Harmful by inhalation.
Xi; R41	Irritant	Risk of serious damage to eyes.
N; R50-53	Dangerous for the environment	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Xi; R36	Irritant	Irritating to eyes.

#### Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

### ANNEX

At present, data / information on exposure scenarios are not available, so that an evaluation of the preparation cannot yet be made.