

Article No.:	490000	Floorservice Hardener (B) Hardwax-oil 2K	
Print date:	13.12.2022	Datum bewerking: 13.12.2022	14359 EN
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Article No. (manufacturer/supplier)	490000
Trade name/designation	Floorservice Hardener (B) Hardwax-oil 2K UFI: 62ED-60EU-400G-MM4M

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

**Relevant identified uses**  
hardener

### 1.3. Details of the supplier of the safety data sheet

#### supplier (manufacturer/importer/downstream user/distributor)

Overmat Industries BV	31 (0) 416 / 317788
Scharlo 11	
NL-5165 NG Waspik	

info@overmat.nl  
www.overmat.nl

#### Department responsible for information:

Product Safety Department 7:30 a.m. - 4:45 p.m.	Peter Kerstens
E-mail (competent person)	+31 (0) 416 / 317788 p.kerstens@overmat.nl

### 1.4. Emergency telephone number

Netherland +31(030) 2748888

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

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

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.

### 2.2. Label elements

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

##### Hazard pictograms



Warning

##### Hazard statements

H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

##### Precautionary statements

P280	Wear protective gloves and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P405	Keep locked up.

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**Hazard components for labelling**

Hexamethylene diisocyanate, oligomers

**Supplemental hazard information**

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3. **Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

3.2. **Mixtures**

**Description** Isocyanate containing product.

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

EC No.	REACH No.	weight-%
CAS No.	Designation	
Index No.	classification: // Remark	
500-060-2		
28182-81-2	Hexamethylene diisocyanate, oligomers Acute Tox. 4 H332 / Skin Sens. 1 H317 / STOT SE 3 H335 Acute toxicity estimate (ATE): ATE (inhalation, vapour): 18,00 mg/L	50 < 100

**Additional information**

Full text of classification: see section 16

**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.

Remove affected person from the danger area and lay down.

Put victim at rest, cover with a blanket and keep warm.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Move victim to fresh air.

In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Take off immediately all contaminated clothing.

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest.

If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of irregular breathing or respiratory arrest provide artificial respiration.

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

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

**Following 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.

Call a physician immediately.

Wash contaminated clothing prior to re-use.

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

**After eye contact**

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

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

**Following ingestion**

Rinse mouth immediately and drink plenty of water.

Seek medical advice immediately.

Keep victim calm. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person or a person with cramps.

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**

First Aid, decontamination, treatment of symptoms.

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### Symptoms

May irritate eyes.  
May cause respiratory irritation.  
May irritate skin.  
May cause sensitization by skin contact.

### Special treatment

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

strong water jet

### 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire.

Inhaling hazardous decomposing products can cause serious health damage.

In case of fire may be liberated: carbon monoxide, carbon dioxide, Nitrogen oxides (NOx), Isocyanates.

Possible in traces: Hydrogen cyanide (hydrocyanic acid).

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device.

Wear full chemical protective clothing.

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.

Keep people away from and upwind of spill/leak.

## 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.

Avoid contact with eyes and skin.

Remove persons to safety.

Wear suitable protective clothing.

Keep away from heat. - No smoking.

Keep people away from and upwind of spill/leak.

### 6.2. Environmental precautions

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 section 13). Use appropriate container to avoid environmental contamination. Fouled surfaces must be immediately cleaned with suitable solvents, Useable as such (flammable): water 45 vol.% ethanol or i-propanol 50 vol. % ammonia solution (density= 0.88) 5 vol.%

Alternative (non-flammable): sodium carbonate 5 vol.% water 95 vol.%.

Take up spilled residuals with the same agent and leave them for a few days in unclosed containers until there is no further reaction. Then, close the containers and dispose of them in accordance with the regulations for waste removal (refer to section 13).

Provide adequate ventilation.

### 6.4. Reference to other sections

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

## SECTION 7: Handling and storage

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

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People who spray this preparation should have regular pulmonary function tests.

#### 7.1. Precautions for safe handling

##### Advices on safe handling

Keep away from heat sources, sparks and open flames.

Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. 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 section 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.

Protect from sunlight.

Keep away from food, drink and animal feedingstuffs.

Take off immediately all contaminated clothing.

Separate storage of work clothes.

Wash hands before breaks and after work.

Handle in accordance with good industrial hygiene and safety practice.

##### Further information

Keep away from sources of ignition - No smoking.

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

##### Requirements for storage rooms and vessels

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.

Store carefully closed containers upright to prevent any leaks.

##### Hints on joint storage

Keep away from: Oxidizing agent, Acids, Alkali (lye), Amines, Alcohols, Reducing agent.

Keep away from food, drink and animal feedingstuffs.

##### 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.

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

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

People who spray this preparation should have regular pulmonary function tests.

#### 8.1. Control parameters

##### Occupational exposure limit values

not applicable

##### DNEL:

Hexamethylene diisocyanate, oligomers

EC No. 500-060-2 / CAS No. 28182-81-2

DNEL acute inhalative (local), Workers: 1 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 0,5 mg/m<sup>3</sup>

##### PNEC:

Hexamethylene diisocyanate, oligomers

EC No. 500-060-2 / CAS No. 28182-81-2

PNEC aquatic, freshwater: 0,199 mg/L

PNEC aquatic, marine water: 0,0199 mg/L

PNEC sediment, freshwater: 44551 mg/kg

PNEC sediment, marine water: 4455 mg/kg

PNEC, soil: 8884 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

#### 8.2. Exposure controls

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Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus. For other tasks a suitable respiratory system must be used, if local and room suction is not sufficient for keeping aerosol and solvent vapour concentration below the exposure limit values. (refer to Personal protection equipment.)

#### **Personal protection equipment**

##### **Respiratory protection**

If the pollutant concentration 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.  
respirator with A/P-filter (EN 14387)

##### **Hand protection**

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time: > 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 EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

##### **Eye/face protection**

Wear eye glasses with side protection according to EN 166.

##### **Body protection**

Wear suitable protective clothing.

##### **Protective measures**

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

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with eyes and skin.

Do not breathe vapour/aerosol.

Keep away from food, drink and animal feedingstuffs.

Take off immediately all contaminated clothing.

Separate storage of work clothes.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

Guarantee that the eye flushing systems and safety showers are closely located to the working place.

##### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

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

<b>Physical state:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>colourless</b>
<b>Odour:</b>	<b>mild</b>
<b>Odour threshold:</b>	<b>not determined</b>
<b>Melting point/freezing point:</b>	<b>not applicable</b>
<b>Initial boiling point and boiling range:</b>	<b>not determined</b>
<b>Flammability:</b>	<b>Combustible liquid.</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>not determined</b>
<b>Upper explosion limit:</b>	<b>not determined</b>
<b>Flash point:</b>	<b>203 °C</b> Method: EN ISO 2719
<b>Auto-ignition temperature:</b>	<b>440 °C</b>
<b>Decomposition temperature:</b>	<b>not determined</b>
<b>pH at 20 °C:</b>	<b>not applicable</b>
<b>Cinematic viscosity (40°C):</b>	<b>833,04 mm<sup>2</sup>/s</b>

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**Viscosity at 20 °C:** 958 mPa\* s  
**Solubility(ies):**  
**Water solubility at 20 °C:** insoluble  
**Partition coefficient: n-octanol/water:** see section 12  
**Vapour pressure at 20 °C:** < 0,0001 mbar  
**Density and/or relative density:**  
**Density at 20 °C:** 1,15 g/cm<sup>3</sup>  
**Relative vapour density:** not determined  
**particle characteristics:** not applicable

9.2. **Other information**

**Solid content:** 100,00 weight-%  
**solvent content:**  
**Organic solvents:** 0,00 weight-%  
**Water:** 0,00 weight-%

**SECTION 10: Stability and reactivity**

10.1. **Reactivity**

Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.2. **Chemical stability**

The product is stable under storage at normal ambient temperatures.  
Further remarks: SECTION 7: Handling and storage

10.3. **Possibility of hazardous reactions**

Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.

10.4. **Conditions to avoid**

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

Alkali (lye), Oxidizing agent, Acids, Amines, Alcohols, Reducing agent

10.6. **Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, Nitrogen oxides (NOx), Isocyanates.  
Possible in traces: Hydrogen cyanide (hydrocyanic acid).

**SECTION 11: Toxicological information**

11.1. **Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

Harmful if inhaled.

Hexamethylene diisocyanate, oligomers

oral, LD50, Rat: > 2000 mg/kg

Method: OECD 423

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 18 mg/L (4 h)

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Hexamethylene diisocyanate, oligomers

Skin, Rabbit

Method: OECD 404

mild irritant.

eyes, Rabbit

Method: OECD 405

mild irritant.

**Respiratory or skin sensitisation**

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May cause an allergic skin reaction.

Hexamethylene diisocyanate, oligomers

Skin, Guinea pig:

Method: OECD 406

May cause an allergic skin reaction.

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

Hexamethylene diisocyanate, oligomers

Germ cell mutagenicity

Ames test negative.

#### **STOT-single exposure; STOT-repeated exposure**

May cause respiratory irritation.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Practical experience/human evidence**

Splashing may cause eye irritation and reversible damage.

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.

Ingestion may cause nausea, weakness and affect the central nervous system.

Because of the isocyanate components' properties of this and with consideration of similar preparations the following applies:

This mixture may cause acute irritation and/or sensitization of airways which lead to tightness in thorax, short-breath and asthmatic complaints. After sensitization even concentrations below the exposure limit values may cause asthma. Repeated inhaling can lead to permanent illness of the respiratory tract.

#### **Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No information available.

### **SECTION 12: Ecological information**

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

#### **12.1. Toxicity**

Hexamethylene diisocyanate, oligomers

Fish toxicity, LC50, Danio rerio (zebrafish): > 100 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: > 100 mg/L (48 h)

Algae toxicity, ErC50, Scenedesmus subspicatus: 199 mg/L (72 h)

##### **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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### **12.6. Endocrine disrupting properties**

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No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself.  
Do not dispose of with domestic refuse.

This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

Empty container completely.

Do not perforate, cut up or weld uncleaned container.

**SECTION 14: Transport information**

**No dangerous good in sense of this transport regulation.**

**14.1. UN number or ID number**

not applicable

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

Land transport (ADR/RID) not applicable

Marine pollutant not applicable

**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 information**

**Land transport (ADR/RID)**

Tunnel restriction code -

**Sea transport (IMDG)**

EmS-No. not applicable

**14.7. Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC-value (in g/L): 0,000

**National regulations**

**Restrictions of occupation**



**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878



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Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

**15.2. Chemical Safety Assessment**

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

**SECTION 16: Other information**

**Full text of classification in section 3:**

Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.

**Classification procedure**

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

Acute Tox. 4	Acute toxicity (inhalative)	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

**Further information**

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

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 section 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.