

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.09.2019

Version number 1.03

Revision: 05.09.2019

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

- **Product identifier**
- **Trade name: PROTECT Top Coat neo**
- **Article number: 2759/D**
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** concrete protection
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Ha-Be Middle East FZE  
SAIF Zone | P.O. Box 9583 | Sharjah - UAE  
Phone: +971 6 557 28 30 | Fax +971 6 55728 60  
office.uae@ha-be.com | www.ha-be.ae
- **Further information obtainable from:** office.uae@ha-be.com
- **Emergency telephone number:** +971 6 557 28 30 (UAE)

## 2 Hazards identification

- **Classification of the substance or mixture**



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Acute Tox. 4 H332 Harmful if inhaled.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

1-methoxy-2-propanol

Gemisch aus a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-w-hydroxypoly(oxyethylen) und a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-w-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionylpoly(oxyethylen)

- **Hazard statements**

Highly flammable liquid and vapour.  
 Harmful if inhaled.  
 Causes serious eye irritation.  
 May cause an allergic skin reaction.  
 May cause drowsiness or dizziness.

- **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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Use explosion-proof electrical/ventilating/lighting equipment.  
 Take precautionary measures against static discharge.  
 Do not breathe dust/fume/gas/mist/vapours/spray.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Call a POISON CENTER/doctor/x if you feel unwell.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

### 3 Composition/information on ingredients

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

#### - Dangerous components:

123-86-4	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336; Acute Tox. 5, H333	10-25%
107-98-2	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H331; ⚠ STOT SE 3, H336	10-25%
67-63-0	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336; Acute Tox. 5, H333	10-25%
123-42-2	4-hydroxy-4-methylpentan-2-one ⚠ Flam. Liq. 3, H226; ⚠ Eye Irrit. 2, H319; Acute Tox. 5, H303	2.5-10%
4008-30-7	Gemisch aus a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-w-hydroxypoly(oxyethylen) und a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propiony-w-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylen) ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317; Aquatic Acute 2, H401	≤2.5%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.  
Take affected persons into fresh air and keep quiet.
- **After skin contact:**  
Take-off and remove wetted clothing, shoes and stocking immediately. Wash any exposed body surfaces with soap and water.
- **After eye contact:**  
Seek immediate medical advice.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Call a doctor immediately.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
The inhalation of vapour and fume may cause breathlessness. Otherwise it may result in irritation of respiratory system.
- **Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **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**  
Store in cool, dry place in tightly closed receptacles.  
Take note of emission threshold.  
Use solvent-proof equipment.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Use explosion-proof apparatus / fittings and spark-proof tools.  
Highly volatile, flammable constituents are released during processing.  
Fumes can combine with air to form an explosive mixture.  
Wear shoes with conductive soles.  
Emergency cooling must be available in case of nearby fire.  
Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in well ventilated conditions with a temperature between 5 and 25°C.  
Protect from exposure to the light.

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Keep container tightly sealed.  
 - **Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

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

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

### 123-86-4 n-butyl acetate

PEL (USA)	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
REL (USA)	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
TLV (USA)	Short-term value: 712 mg/m <sup>3</sup> , 150 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
WEL (Great Britain)	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm

### 107-98-2 1-methoxy-2-propanol

REL (USA)	Short-term value: 540 mg/m <sup>3</sup> , 150 ppm Long-term value: 360 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 369 mg/m <sup>3</sup> , 100 ppm Long-term value: 184 mg/m <sup>3</sup> , 50 ppm
IOELV (EU)	Short-term value: 568 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Skin
AGW (Great Britain)	Short-term value: 370 mg/m <sup>3</sup> , 100 ppm
WEL (Great Britain)	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm Sk

### 67-63-0 propan-2-ol

PEL (USA)	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL (USA)	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV (USA)	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm BEI
WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm

### 123-42-2 4-hydroxy-4-methylpentan-2-one

PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm
REL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm
TLV (USA)	Long-term value: 238 mg/m <sup>3</sup> , 50 ppm
WEL (Great Britain)	Short-term value: 362 mg/m <sup>3</sup> , 75 ppm Long-term value: 241 mg/m <sup>3</sup> , 50 ppm

- **Regulatory information**

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)  
 REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)  
 TLV (USA): Guide to Occupational Exposure Values (ACGIH)  
 WEL (Great Britain): EH40/2018  
 IOELV (EU): (EU) 2017/164

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**- Ingredients with biological limit values:****67-63-0 propan-2-ol**

BEI (USA)	40 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Acetone (background, nonspecific)

**- Additional information:** The lists valid during the making were used as basis.

**- Exposure controls****- Personal protective equipment:****- General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes.  
 Avoid contact with the eyes and skin.

**- Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**- Protection of hands:**

Protective gloves

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**

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:**

Tightly sealed goggles

## 9 Physical and chemical properties

**- Information on basic physical and chemical properties****- General Information****- Appearance:**

**Form:** Fluid  
**Colour:** According to product specification

**- Odour:** Characteristic

**- Odour threshold:** Not determined.

**- pH-value:** Not determined.

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- **Change in condition**
  - Melting point/freezing point:** Undetermined.
  - Initial boiling point and boiling range:** Undetermined.
- **Flash point:** 17 °C (DIN 53213)  
Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** 278 °C
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**
  - Lower:** 0.6 Vol %
  - Upper:** 73 Vol %
- **Vapour pressure at 20 °C:** ~16 hPa
- **Density at 20 °C:** 0.9 g/cm<sup>3</sup>
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water:** Partly miscible.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic at 20 °C:** 20 s (DIN 53211/4)
- **Solvent content:**
  - Organic solvents:** 65.0 %
- **Other information:** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:**  
Reacts with strong acids and alkali.  
Reacts with strong oxidising agents.
- **Conditions to avoid:** At elevated temperatures hazardous decomposition products may be evolved.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Possible in traces.

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## 11 Toxicological information

### - Information on toxicological effects

#### - Acute toxicity

#### - Primary irritant effect:

#### - Skin corrosion/irritation

No irritant effect.

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

#### - Serious eye damage/irritation Irritating effect.

#### - Respiratory or skin sensitisation No sensitising effects known.

#### - Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version:

Irritant

## 12 Ecological information

### - Toxicity

#### - Aquatic toxicity: No further relevant information available.

#### - Persistence and degradability No further relevant information available.

#### - Behaviour in environmental systems:

#### - Bioaccumulative potential No further relevant information available.

#### - Mobility in soil No further relevant information available.

#### - Additional ecological information:

#### - General notes:

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or 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 not be disposed together with household garbage. Do not allow product to reach sewage system.

#### - Uncleaned packaging:

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

## 14 Transport information

### - UN-Number

### - ADR, IMDG, IATA

UN1263

### - UN proper shipping name

### - ADR

1263 PAINT RELATED MATERIAL

### - IMDG, IATA

PAINT RELATED MATERIAL

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- Transport hazard class(es)

- ADR



- Class

3 Flammable liquids.

- IMDG, IATA



- Class

3 Flammable liquids.

- Label

3

- Packing group

- ADR, IMDG, IATA

II

- Environmental hazards:

- Marine pollutant:

No

- Special precautions for user

Warning: Flammable liquids.

- EMS Number:

F-E,S-E

- Stowage Category

B

- Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

- Transport/Additional information:

Not dangerous according to the above specifications.

- ADR

- Limited quantities (LQ)

5L

- Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- Tunnel restriction code

D/E

- IMDG

- Limited quantities (LQ)

5L

- Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

- UN "Model Regulation":

UN 1263 PAINT RELATED MATERIAL, 3, II

## 15 Regulatory information

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

- GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

- Hazard pictograms



GHS02 GHS07

- Signal word Danger

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**- Hazard-determining components of labelling:**

1-methoxy-2-propanol

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**- Hazard statements**

Highly flammable liquid and vapour.

Harmful if inhaled.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

**- Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use explosion-proof electrical/ventilating/lighting equipment.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Call a POISON CENTER/doctor/x/if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Store locked up.

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

**- Directive 2012/18/EU****- Named dangerous substances - ANNEX I** None of the ingredients is listed.**- Seveso category** P5c FLAMMABLE LIQUIDS**- Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**- Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**- 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.

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

**- Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H303 May be harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H333 May be harmful if inhaled.

H336 May cause drowsiness or dizziness.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**- Abbreviations and acronyms:**

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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Acute Tox. 5: Acute toxicity – Category 5

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

—AE—