

## Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

### H40 ULTIMATE GREY

Date of first edition: 15/10/2025

Safety Data Sheet dated 15/10/2025

version 1

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

### 1.1. Product identifier

Mixture identification:

Trade name: H40 ULTIMATE GREY

Trade code: KA0452

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

Recommended use: Cement-based adhesive mortar

Uses advised against: All uses other than recommended ones

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

Company: Kerakoll UK Ltd

Tomlinson Road, Leyland, Lancashire, PR25 2DY,

United Kingdom

Tel. 01772 456831

safety@kerakoll.co.uk

### 1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166

Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$

Other Hazards: No other hazards

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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: H40 ULTIMATE GREY

#### Hazardous components within the meaning of the CLP regulation and related classification:

None

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

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

### **4.2. Most important symptoms and effects, both acute and delayed**

N.A.

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

N.A.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### **5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **For non emergency personnel:**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### **For emergency responders:**

Wear personal protection equipment.

### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

### **6.3. Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

### **6.4. Reference to other sections**

See also section 8 and 13

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

#### **Advice on general occupational hygiene:**

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### **7.3. Specific end use(s)**

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Community Occupational Exposure Limits (OEL)**

	<b>OEL Type</b>	<b>Country</b>	<b>Occupational Exposure Limit</b>
Quartz CAS: 14808-60-7	NATIONAL	AUSTRALIA	Long Term: 0.05 mg/m <sup>3</sup> (8h) Respirable fraction
	NATIONAL	HUNGARY	Long Term: 0.1 mg/m <sup>3</sup> (8h) Respirable fraction
	NATIONAL	IRELAND	Long Term: 0.1 mg/m <sup>3</sup> (8h) Respirable fraction
	NATIONAL	SPAIN	Long Term: 0.05 mg/m <sup>3</sup> (8h) Respirable fraction
	NATIONAL	SWITZERLAND	Long Term: 0.15 mg/m <sup>3</sup> (8h) Respirable aerosol
	NATIONAL	ITALY	Long Term: 0.1 mg/m <sup>3</sup> (8h) Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008
	NATIONAL	INDIA	Long Term: 10 mg/m <sup>3</sup> (8h)
	NATIONAL	PORTUGAL	Long Term: 0.05 mg/m <sup>3</sup> (8h) Respirable fraction
	NATIONAL	SLOVENIA	Long Term: 0.05 mg/m <sup>3</sup> - 0.4 ppm (8h)
	ACGIH		Long Term: 0.025 mg/m <sup>3</sup> (8h) R, A2 - Pulm fibrosis, lung cancer
	NATIONAL	CROATIA	Long Term: 0.1 mg/m <sup>3</sup> Source: NN 1/2021
	NATIONAL	AUSTRIA	Long Term: 0.05 mg/m <sup>3</sup> MAK, III C, A Source: BGBl. II Nr. 156/2021
	NATIONAL	BELGIUM	Long Term: 0.1 mg/m <sup>3</sup> C Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	DENMARK	Long Term: 0.3 mg/m <sup>3</sup> Source: BEK nr 2203 af 29/11/2021
	NATIONAL	DENMARK	Long Term: 0.1 mg/m <sup>3</sup> EK Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA	Long Term: 0.1 mg/m <sup>3</sup> 1, C Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	FINLAND	Long Term: 0.05 mg/m <sup>3</sup> alveolijae, liite 3 Source: HTP-ARVOT 2020
	NATIONAL	FRANCE	Long Term: 0.1 mg/m <sup>3</sup> La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline. Source: INRS outil65, article R. 4412-149 du Code du travail
	NATIONAL	LITHUANIA	Long Term: 0.1 mg/m <sup>3</sup> Žiūrėti 1 priedo 3 punktą. Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	NETHERLAND	Long Term: 0.075 mg/m <sup>3</sup> (2) Source: Arbeidsomstandighedenregeling - Lijst B1
NATIONAL	NORWAY	Long Term: 0.3 mg/m <sup>3</sup> K 7	

LIMESTONE  
CAS: 1317-65-3

		Source: FOR-2021-06-28-2248
NATIONAL	NORWAY	Long Term: 0.05 mg/m <sup>3</sup> K G 7 21 Source: FOR-2021-06-28-2248
NATIONAL	POLAND	Long Term: 0.1 mg/m <sup>3</sup> 6) Source: Dz.U. 2018 poz. 1286
NATIONAL	SWEDEN	Long Term: 0.1 mg/m <sup>3</sup> C, M, 3 Source: AFS 2021:3
SUVA	SWITZERLAN D	Long Term: 0.15 mg/m <sup>3</sup> TWA mg/m <sup>3</sup> : (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA Source: suva.ch/valeurs-limites
NATIONAL	SPAIN	Long Term: 10 mg/m <sup>3</sup> (8h) Inhalable aerosol
NATIONAL	SWITZERLAN D	Long Term: 3 mg/m <sup>3</sup> (8h) Respirable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m <sup>3</sup> (8h) Inhalable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 4 mg/m <sup>3</sup> (8h) Respirable aerosol
NATIONAL	CROATIA	Long Term: 10 mg/m <sup>3</sup> (8h)
NATIONAL	FRANCE	Long Term: 10 mg/m <sup>3</sup> (8h)
NATIONAL	NETHERLAND S	Long Term: 10 mg/m <sup>3</sup> (8h)
NATIONAL	PORTUGAL	Long Term: 10 mg/m <sup>3</sup> (8h)
NATIONAL	BULGARIA	Long Term: 10 mg/m <sup>3</sup> Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
NATIONAL	ESTONIA	Long Term: 10 mg/m <sup>3</sup> Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATIONAL	ESTONIA	Long Term: 5 mg/m <sup>3</sup> Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATIONAL	GREECE	Long Term: 10 mg/m <sup>3</sup> εισπν Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	GREECE	Long Term: 5 mg/m <sup>3</sup> αναπν Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	GREECE	Long Term: 10 mg/m <sup>3</sup> εισπν. Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	GREECE	Long Term: 5 mg/m <sup>3</sup> αναπν. Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	HUNGARY	Long Term: 10 mg/m <sup>3</sup> N Source: 5/2020. (II. 6.) ITM rendelet
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN	Long Term: 10 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

IRELAND

WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 4 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 4 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 4 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
NATIONAL	BELGIUM	Long Term: 10 mg/m <sup>3</sup> Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATIONAL	IRELAND	Long Term: 10 mg/m <sup>3</sup> Source: 2021 Code of Practice
NATIONAL	IRELAND	Long Term: 4 mg/m <sup>3</sup> Source: 2021 Code of Practice
CALCIUM SULFATE CAS: 7778-18-9	ACGIH	Long Term: 10 mg/m <sup>3</sup> (8h) I - Nasal symptoms
NATIONAL	BELGIUM	Long Term: 10 mg/m <sup>3</sup> Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATIONAL	GERMANY	Long Term: 6 mg/m <sup>3</sup> DFG, A Source: TRGS 900
NATIONAL	IRELAND	Long Term: 10 mg/m <sup>3</sup> Source: 2021 Code of Practice
NATIONAL	SLOVENIA	Long Term: 6 mg/m <sup>3</sup> (A) Source: UL št. 72, 11. 5. 2021
NATIONAL	SPAIN	Long Term: 10 mg/m <sup>3</sup> e Source: LEP 2022
NATIONAL	AUSTRIA	Long Term: 5 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup> 60(Miw), 2x, MAK, A Source: GKV, BGBl. II Nr. 156/2021
NATIONAL	GREECE	Long Term: 10 mg/m <sup>3</sup> Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	GREECE	Long Term: 5 mg/m <sup>3</sup> αυανν. Source: ΦΕΚ 94/Α` 13.5.1999
NATIONAL	GREECE	Long Term: 10 mg/m <sup>3</sup> εισπν.

Source: ΦEK 94/A` 13.5.1999

NATIONAL	HUNGARY	Long Term: 4 mg/m3 N Source: 5/2020. (II. 6.) ITM rendelet
NATIONAL	HUNGARY	Long Term: 1.5 mg/m3 resp, N Source: 5/2020. (II. 6.) ITM rendelet
NATIONAL	LATVIA	Long Term: 4 mg/m3 Source: KN325P1
NATIONAL	POLAND	Long Term: 10 mg/m3 4), 7) Source: Dz.U. 2018 poz. 1286
NATIONAL	SLOVAKIA	Long Term: 4 mg/m3 10) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SLOVAKIA	Long Term: 1.5 mg/m3 11) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SLOVAKIA	Long Term: 4 mg/m3 10) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SLOVAKIA	Long Term: 1.5 mg/m3 11) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
SUVA	SWITZERLAN D	Long Term: 3 mg/m3 TWA mg/m3: (a), SSC, Formel / Formal Source: suva.ch/valeurs-limites
NATIONAL	AUSTRALIA	Long Term: 0.05 mg/m3 (8h) Respirable fraction
NATIONAL	HUNGARY	Long Term: 0.1 mg/m3 (8h) Respirable aerosol
NATIONAL	IRELAND	Long Term: 0.1 mg/m3 (8h) Respirable fraction
NATIONAL	SPAIN	Long Term: 0.05 mg/m3 (8h) Respirable fraction
NATIONAL	SWITZERLAN D	Long Term: 0.15 mg/m3 (8h) Respirable aerosol
NATIONAL	ITALY	Long Term: 0.1 mg/m3 (8h) Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008
NATIONAL	PORTUGAL	Long Term: 0.05 mg/m3 (8h)
NATIONAL	SLOVENIA	Long Term: 0.05 mg/m3 - 0.4 ppm (8h)
EU		Long Term: 0.1 mg/m3 Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung cancer. Directive 2017/2398
NATIONAL	INDIA	Long Term: 10 mg/m3
ACGIH		Long Term: 0.025 mg/m3 (8h) R, A2 - Pulm fibrosis, lung cancer
NATIONAL	CROATIA	Long Term: 0.1 mg/m3 Source: NN 1/2021
NATIONAL	AUSTRIA	Long Term: 0.05 mg/m3 MAK, III C, A Source: BGBl. II Nr. 156/2021
NATIONAL	BELGIUM	Long Term: 0.1 mg/m3 C Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
NATIONAL	DENMARK	Long Term: 0.3 mg/m3 Source: BEK nr 2203 af 29/11/2021

Quartz  
CAS: 14808-60-7

	NATIONAL	DENMARK	Long Term: 0.1 mg/m3 EK Source: BEK nr 2203 af 29/11/2021
	NATIONAL	ESTONIA	Long Term: 0.1 mg/m3 1, C Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
	NATIONAL	FINLAND	Long Term: 0.05 mg/m3 alveolijae, liite 3 Source: HTP-ARVOT 2020
	NATIONAL	FRANCE	Long Term: 0.1 mg/m3 La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline. Source: INRS outil65, article R. 4412-149 du Code du travail
	NATIONAL	LITHUANIA	Long Term: 0.1 mg/m3 Žiūrėti 1 priedo 3 punktą. Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
	NATIONAL	NETHERLAND S	Long Term: 0.075 mg/m3 (2) Source: Arbeidsomstandighedenregeling - Lijst B1
	NATIONAL	NORWAY	Long Term: 0.3 mg/m3 K 7 Source: FOR-2021-06-28-2248
	NATIONAL	NORWAY	Long Term: 0.05 mg/m3 K G 7 21 Source: FOR-2021-06-28-2248
	NATIONAL	POLAND	Long Term: 0.1 mg/m3 6) Source: Dz.U. 2018 poz. 1286
	NATIONAL	SWEDEN	Long Term: 0.1 mg/m3 C, M, 3 Source: AFS 2021:3
	SUVA	SWITZERLAND D	Long Term: 0.15 mg/m3 TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA Source: suva.ch/valeurs-limites
sodium carbonate CAS: 497-19-8	ITA	CZECHIA	Long Term: 5 mg/m3 (8h); Short Term: 10 mg/m3 (15min)
	NATIONAL	ROMANIA	Long Term: 1 mg/m3; Short Term: 3 mg/m3 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
CALCIUM DIHYDROXIDE CAS: 1305-62-0	ACGIH		Long Term: 5 mg/m3 (8h) Eye, URT and skin irr
	NATIONAL	BELGIUM	Long Term: 1 mg/m3; Short Term: 4 mg/m3 Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1
	NATIONAL	CROATIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3 R (14) Source: 2017/164/EU
	NATIONAL	CYPRUS	Long Term: 1 mg/m3; Short Term: 4 mg/m3 9 (2019) Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021
	NATIONAL	GERMANY	Long Term: 1 mg/m3 Y, EU, DFG, E, 2 (I) Source: TRGS 900
	NATIONAL	GREECE	Long Term: 1 mg/m3; Short Term: 4 mg/m3 9) Source: Π.Δ. 82/2018 (ΦΕΚ 152/Α` 21.8.2018)
	NATIONAL	IRELAND	Long Term: 1 mg/m3; Short Term: 4 mg/m3 IOELV, R Source: 2021 Code of Practice
	NATIONAL	ITALY	Long Term: 1 mg/m3; Short Term: 4 mg/m3 Frazione respirabile

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL	LATVIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> Source: KN325P1
NATIONAL	LUXEMBOUR G	Long Term: 5 mg/m <sup>3</sup> 11, 14 Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	LUXEMBOUR G	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> 9, 14 Source: Mémorial A n.226 du 22 mars 2021
NATIONAL	MALTA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> 10 Source: S.L.424.24
NATIONAL	PORTUGAL	Long Term: 1 mg/m <sup>3</sup> (9) Source: Decreto-Lei n.º 1/2021
NATIONAL	ROMANIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> Fracțiune respirabilă, Dir. 2017/164 Source: Republicarea 1 - nr. 743 din 29 iulie 2021
NATIONAL	SLOVENIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> Y, EU4, (A) Source: UL št. 72, 11. 5. 2021
NATIONAL	SPAIN	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> VLI, d Source: LEP 2022
NATIONAL	AUSTRIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: Ceiling - 4 mg/m <sup>3</sup> 5(Mow), 8x, MAK, E Source: GKV, BGBl. II Nr. 156/2021
NATIONAL	BULGARIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> 5 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.
NATIONAL	CZECHIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: Ceiling - 4 mg/m <sup>3</sup> I, R Source: Nařízení vlády č. 361-2007 Sb
NATIONAL	DENMARK	Long Term: 5 mg/m <sup>3</sup> E Source: BEK nr 2203 af 29/11/2021
NATIONAL	DENMARK	Long Term: 1 mg/m <sup>3</sup> E Source: BEK nr 2203 af 29/11/2021
NATIONAL	ESTONIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> 1 Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105
NATIONAL	FINLAND	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> Source: HTP-ARVOT 2020
NATIONAL	FRANCE	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> Source: INRS outil65, article R. 4412-149 du Code du travail
NATIONAL	HUNGARY	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> resp, EU4, N Source: 5/2020. (II. 6.) ITM rendelet
NATIONAL	LITHUANIA	Long Term: 5 mg/m <sup>3</sup> O Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389
NATIONAL	NETHERLAND S	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> (2) Source: Arbeidsomstandighedenregeling - Lijst A
NATIONAL	NORWAY	Long Term: 1 mg/m <sup>3</sup> E Source: FOR-2021-06-28-2248
NATIONAL	NORWAY	Short Term: 4 mg/m <sup>3</sup>



		S Source: FOR-2021-06-28-2248
NATIONAL	POLAND	Long Term: 2 mg/m <sup>3</sup> ; Short Term: 6 mg/m <sup>3</sup> 4) Source: Dz.U. 2018 poz. 1286
NATIONAL	POLAND	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> 6) Source: Dz.U. 2018 poz. 1286
NATIONAL	SLOVAKIA	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> 11) Source: 355 NARIADENIE VLÁDY z 10. mája 2006
NATIONAL	SWEDEN	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> 3 Source: AFS 2021:3
SUVA	SWITZERLAN D	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 4 mg/m <sup>3</sup> TWA mg/m <sup>3</sup> : (i), SSC, VRS / OAW, NIOSH Source: suva.ch/valeurs-limites
WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 5 mg/m <sup>3</sup> Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU		Long Term: 1 mg/m <sup>3</sup> (8h); Short Term: 4 mg/m <sup>3</sup> Respirable fraction

## 8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

Prevent the product from entering sewers or surface and underground water.

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## SECTION 9: Physical and chemical properties

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

Physical state: Solid

Colour: Grey

Odour: Odourless

Odour threshold: N.A.

pH: >10 >10.00

Kinematic viscosity: <= 20,5 mm<sup>2</sup>/sec (40 °C)

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: > 93°C

Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: N.A.

Density and/or relative density: 1.15 g/cm<sup>3</sup>

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = N.A.

**Particle characteristics:**

Particle size: N.A.

**9.2. Other information**

No other relevant information

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**SECTION 10: Stability and reactivity****10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Data not available.

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

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**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicological Information of the Preparation**

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified
	Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

**11.2. Information on other hazards****Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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**SECTION 12: Ecological information****12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

**List of Eco-Toxicological properties of the product**

Not classified for environmental hazards.

No data available for the product

**12.2. Persistence and degradability**

N.A.

**12.3. Bioaccumulative potential**

N.A.

#### 12.4. Mobility in soil

N.A.

#### 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

#### 12.7. Other adverse effects

N.A.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as non-hazardous waste

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

#### Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

N.A.

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### SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

#### 14.1. UN number or ID number

#### 14.2. UN proper shipping name

N.A.

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

ADR-Class: N.A.

#### 14.4. Packing group

N.A.

ADR-Packing Group:

#### 14.5. Environmental hazards

N.A.

#### 14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG):

N.A.

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

N.A.

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### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)  
Regulation (EU) n. 2023/707  
Regulation (EU) n. 2023/1434 (ATP 19 CLP)  
Regulation (EU) n. 2023/1435 (ATP 20 CLP)  
Regulation (EU) n. 2024/197 (ATP 21 CLP)  
Regulation (EU) n. 2020/878  
Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: 75

Provisions related to directive EU 2012/18 (Seveso III):

None

### **Explosives precursors – Regulation 2019/1148**

No substances listed

### **Regulation (EU) No 649/2012 (PIC regulation)**

No substances listed

### **German Water Hazard Class.**

3: Severe hazard to waters

### **German Lagerklasse according to TRGS 510:**

LGK 11

SVHC Substances:

No SVHC substances present in concentration  $\geq 0.1\%$

### **15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

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## **SECTION 16: Other information**

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level.  
DPD: Dangerous Preparations Directive  
DSD: Dangerous Substances Directive  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAHF: Keep Away From Heat  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/A: Not Applicable  
N/D: Not defined/ Not available  
NA: Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.