according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

**Version:** 2 Page 1/11



# **Putty HD Flex + Hardener 1kg**

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

## 1.1. Product identifier

Trade name/designation:

# Putty HD Flex + Hardener 1kg

#### **Article No.:**

T123001

UFI:

D5HM-T7DE-CJ11-XHNQ

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

Bodyfiller/stopper

#### Relevant identified uses:

**Product Categories [PC]** 

PC 9b: Fillers, putties, plasters, modelling clay

**PROC 10:** Roller application or brushing

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

# Supplier:

#### **KANDO Service GmbH**

Hartleitnerstraße 3 4653 Eberstalzell

Austria

**Telephone:** +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (Flam. Liq. 3)	H226: Flammable liquid and vapour.	
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Reproductive toxicity (Repr. 2)	H361d: Suspected of damaging the unborn child.	
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure.	

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

**Version:** 2 Page 2/11



# Putty HD Flex + Hardener 1kg

# 2.2. Label elements

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







**GHS07** Exclamation mark



**GHS08** Health hazard

Signal word: Danger

# Hazard components for labelling:

Styrene

Hazard statements for physical hazards	
H226	Flammable liquid and vapour.

Hazard statements for health hazards		
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H361d	Suspected of damaging the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	

Supplemental hazard information		
EUH066	Repeated exposure may cause skin dryness or cracking.	

Precautionary statements Prevention		
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/eye protection.	

Precautionary statements Response		
P314	Get medical advice/attention if you feel unwell.	

Precautionary statements Storage	
P405	Store locked up.

Precautionary statements Disposal		
P501	Dispose of contents/container to an appropriate recycling or disposal facility.	

#### 2.3. Other hazards

#### Other adverse effects:

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

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

# 3.2. Mixtures

# **Description:**

Mixture of substances listed below with non-hazardous admixtures.

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

**Version:** 2 Page 3/11



# Putty HD Flex + Hardener 1kg

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 100-42-5 EC No.: 202-851-5 Index No.: 601-026-00-0 REACH No.: 01-2119457861-32	Styrene Acute Tox. 4 (H332), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Repr. 2 (H361d), STOT RE 1 (H372), STOT SE 3 (H335), Skin Irrit. 2 (H315)  Danger	10 - < 12.5 Vol-%
CAS No.: 7727-43-7 EC No.: 231-784-4 REACH No.: 01-2119491274-35	barium sulfate The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	5 - < 10 Vol-%
CAS No.: 13463-67-7 EC No.: 236-675-5 REACH No.: 01-2119489379-17	<b>titanium dioxide</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	< 2.5 Vol-%

Full text of H- and EUH-phrases: see section 16.

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

# 4.1. Description of first aid measures

## **General information:**

Symptoms of poisoning may not appear for many hours, therefore medical monitoring for at least 48 hours after an accident.

#### Following inhalation:

If unconscious, position and transport in stable lateral position.

## In case of skin contact:

Wash off immediately with soap and water and rinse well.

# After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

#### Following ingestion:

Drink plenty of water. Provide fresh air. Call a physician immediately.

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

No further relevant information available.

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

No further relevant information available.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media:

Carbon dioxide (CO2), Extinguishing powder, Water spray jet Fight larger fires with water spray or alcohol-resistant foam.

# Unsuitable extinguishing media:

Water in full jet

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

No further relevant information available.

# 5.3. Advice for firefighters

No special measures are necessary.

# **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

# **Personal precautions:**

Wear protective equipment. Keep unprotected persons away.

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

Version: 2 Page 4/11



# **Putty HD Flex + Hardener 1kg**

Keep away from sources of ignition - No smoking.

## 6.1.2. For emergency responders

No data available

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

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

#### For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### Other information:

Dispose of contaminated material as waste according to section 13..

Provide adequate ventilation.

#### 6.4. Reference to other sections

See section 7 for further information on safe handling.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### **Protective measures**

#### Advices on safe handling:

No special measures required if used properly.

# Fire prevent measures:

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

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

#### Requirements for storage rooms and vessels:

No special requirements.

#### Hints on storage assembly:

Not required.

Storage class (TRGS 510, Germany): 3 - Flammable liquids

# Further information on storage conditions:

Keep container tightly closed.

# 7.3. Specific end use(s)

#### Recommendation:

No further relevant information available.

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

#### 8.1. Control parameters

# 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	<ol> <li>Long-term occupational exposure limit value</li> <li>Short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
MAK (AT)	<b>Styrene</b> CAS No.: 100-42-5 EC No.: 202-851-5	② 80 ppm (340 mg/m³) ⑤ (max. 4x15 min./Schicht) d
MAK (AT)	<b>Styrene</b> CAS No.: 100-42-5 EC No.: 202-851-5	① 20 ppm (85 mg/m³) ⑤ d

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

**Version:** 2 Page 5/11



# Putty HD Flex + Hardener 1kg

Limit value type (country of origin)	Substance name	<ol> <li>Long-term occupational exposure limit value</li> <li>Short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
MAK (AT) from 11 Sept 2007	<b>titanium dioxide</b> CAS No.: 13463-67-7 EC No.: 236-675-5	② 10 mg/m³ ⑤ (alveolengängige Fraktion, max. 2x60 min./Schicht)
MAK (AT) from 11 Sept 2007	<b>titanium dioxide</b> CAS No.: 13463-67-7 EC No.: 236-675-5	① 5 mg/m³ ⑤ (alveolengängige Fraktion)

# 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

## 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

No further details. See section 7.

#### 8.2.2. Personal protection equipment







#### Eye/face protection:

Safety goggles with side shields (EN 166).

#### Skin protection:

Hand protection:

Wear protective gloves.

Glove material: Butyl caoutchouc (butyl rubber)

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. Permeation time (maximum wear duration):

Gloves made of butyl rubber with a material thickness of 0.4mm are resistant to: Acetone 480 min; Butyl acetate 60 min; Ethyl acetate 170 min; Xylene 42 min

Gloves made of butyl rubber with a layer thickness of 0.4 mm are resistant to solvents for 42 - 480 minutes. As a precautionary measure, we recommend users and those responsible for occupational safety to take a resistance of 42 minutes as a basis. Taking into account the information in chapter 3 of the MSDS, it is possible to assume a higher resistance in individual cases.

# Respiratory protection:

In case of short or low exposure use breathing filter apparatus; in case of intensive or prolonged exposure use self-contained breathing apparatus. Filter A2/P3

#### Other protection measures:

General protective and hygienic measures:

Keep away from food, drink and animal feed.

Remove contaminated, saturated clothing immediately.

Wash hands before breaks and after work.

Separate storage of work clothes.

Avoid contact with eyes and skin.

#### 8.2.3. Environmental exposure controls

No data available

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

**Version:** 2 Page 6/11



# Putty HD Flex + Hardener 1kg

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

# 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state: Liquid

Odour: characteristic

Colour: According to product designation

Odour threshold: not determined

## Safety relevant basis data

Parameter	Value	at °C	1 Method
			② Remark
рН	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	145 °C		
Flash point	31 °C		
Evaporation rate	No data available		
Auto-ignition temperature	480 °C		② Styrene (100-42-5)
Upper/lower flammability or explosive limits	1.2 - 8.9 Vol-%		② Styrene (100-42-5)
Vapour pressure	6 hPa	20 °C	② Styrene (100-42-5)
Vapour density	No data available		
Density	0.7 - 1.9 g/cm <sup>3</sup>	20 °C	
Bulk density	not applicable		
Water solubility	practically insoluble		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

#### 9.2. Other information

The product is not explosive, but the formation of explosive vapour/air mixtures is possible.

Organic solvents: 0,3% Solid content:93,0%

# 9.2.1. Information with regard to physical hazard classes

#### **Explosives:**

Not applicable

#### Flammable gases:

Not applicable

#### Aerosols:

Not applicable

# Oxidizing gases:

Not applicable

# **Gases under pressure:**

Not applicable

# Flammable liquids:

Flammable liquid and vapour.

# Flammable solids:

Not applicable

# **Self-reactive substances and mixtures:**

Not applicable

# **Pyrophoric liquids:**

Not applicable

# **Pyrophoric solids:**

Not applicable

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

Version: 2 Page 7/11



# Putty HD Flex + Hardener 1kg

# Self-heating substances and mixtures:

Not applicable

#### Substances or mixtures which, in contact with water, emit flammable gases:

Not applicable

# **Oxidizing liquids:**

Not applicable

#### Oxidizing solids:

Not applicable

#### **Organic peroxides:**

Not applicable

#### **Corrosive to metals:**

Not applicable

## **Desensitised explosives:**

Not applicable

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No further relevant information available.

#### 10.2. Chemical stability

Thermal decomposition / Conditions to avoid No decomposition when used as directed.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4. Conditions to avoid

No further relevant information available.

#### 10.5. Incompatible materials

No further relevant information available.

# 10.6. Hazardous decomposition products

No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

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

Styrene CAS No.: 100-42-5 EC No.: 202-851-5

**LD<sub>50</sub> oral:** 5,000 mg/kg (Ratte) **LD<sub>50</sub> dermal:** >2,000 mg/kg (Ratte)

LC<sub>50</sub> Acute inhalation toxicity (vapour): 11.8 mg/L (Ratte)

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

Causes skin irritation.

#### Serious eve damage/irritation:

Causes serious eye irritation.

# Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met. No sensitising effect known.

# Germ cell mutagenicity:

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

#### Carcinogenicity:

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

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

Version: 2 Page 8/11



# Putty HD Flex + Hardener 1kg

#### Reproductive toxicity:

Suspected of damaging the unborn child.

# **STOT-single exposure:**

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

## **STOT-repeated exposure:**

Causes damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard:**

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

#### 11.2. Information on other hazards

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

None of the ingredients are included.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

#### Aquatic toxicity:

No further relevant information available.

#### Assessment/classification:

No further relevant information available.

#### 12.2. Persistence and degradability

#### **Additional information:**

No further relevant information available.

#### 12.3. Bioaccumulative potential

#### **Accumulation / Evaluation:**

No further relevant information available.

#### 12.4. Mobility in soil

No further relevant information available.

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

**Styrene** CAS No.: 100-42-5 EC No.: 202-851-5

Results of PBT and vPvB assessment: -

**barium sulfate** CAS No.: 7727-43-7 EC No.: 231-784-4

Results of PBT and vPvB assessment: —

**titanium dioxide** CAS No.: 13463-67-7 EC No.: 236-675-5

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

The product does not contain any substances with endocrine-disrupting properties.

#### 12.7. Other adverse effects

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Drinking water hazard even when small quantities leak into the subsoil.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

For Austria: Full and empty containers are to be disposed of by private end users at the responsible hazardous waste collection centre.

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

**Version:** 2 Page 9/11



# Putty HD Flex + Hardener 1kg

# 13.1.1. Product/Packaging disposal

# Waste codes/waste designations according to EWC/AVV

Waste code product

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances		
15 01 10 *	packaging containing residues of or contaminated by dangerous substances		
4 1.			

<sup>\*:</sup> Evidence for disposal must be provided.

# Waste code packaging

15 01 04 metallic packaging

## **Waste treatment options**

#### Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

# **SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)	
14.1. UN number or	ID number			
UN 3269	UN 3269	UN 3269	UN 3269	
14.2. UN proper ship	ping name	•	<del>-</del>	
POLYESTER RESIN KIT	POLYESTER RESIN KIT, liquid base material	POLYESTER RESIN KIT	POLYESTER RESIN KIT	
14.3. Transport haza	rd class(es)			
	3		3	
14.4. Packing group	] 3	<u> </u>	] 3	
	Ī III	III	III	
14.5. Environmental	hazards	Į.		
No	No	No	No	
14.6. Special precau	tions for user	•		
Special Provisions: 236   340	Special Provisions: 236   340	Special Provisions: 236   340	Special Provisions: A66   A163	
Limited quantity (LQ): 5 L	Limited quantity (LQ):	Limited quantity (LQ): 5 L	Limited quantity (LQ):	
Excepted Quantities (EQ): siehe SV 340 Classification code: F3	Excepted Quantities (EQ): siehe SV 340 Classification code: F3	Excepted Quantities (EQ): Siehe SV340 EmS-No.: F-E, S-D	Excepted Quantities (EQ): E0 Remark: Caution: Flammable liquid	
Tunnel restriction code: (E) Remark: Caution: Flammable liquid substances!	Remark: Caution: Flammable liquid substances!	Remark: Caution: Flammable liquid substances!	substances!	

# 14.7. Maritime transport in bulk according to IMO instruments

# not applicable

# **SECTION 15: Regulatory information**

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

# 15.1.1. EU legislation

# **Authorisations:**

Named dangerous substances - ANNEX I: None of the ingredients are included.

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

Version: 2 Page 10/11



# Putty HD Flex + Hardener 1kg

#### Restrictions on use:

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

Regulation (EU) 2019/1148

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

## Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances:

• Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas Regulation (EC) No 1907/2006 ANNEX XVII Restriction conditions: 3

#### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 12 Vol-%

## 15.1.2. National regulations

No data available

# 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

# 16.1. Indication of changes

No data available

## 16.2. Abbreviations and acronyms

ACGIH American Conference of Governmental Industrial Hygienists

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways

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

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

DNEL derived no-effect level EC<sub>50</sub> Effective Concentration 50%

EN European Standard ES Exposure scenario

EWC European Waste Catalogue IC<sub>50</sub> Inhibition Concentration 50 %

ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods IMO International Maritime Organization

KG body weight

LC<sub>50</sub> Lethal (fatal) Concentration 50%

LD<sub>50</sub> Lethal (fatal) Dose 50%

MAK Maximum concentration in the workplace air (CH)

NFPA National Fire Protection Association

NIOSH National Institute for Occupational Safety & Health

OEL Threshold Limit Value

OSHA Occupational Safety & Health Administration PBT persistent and bioaccumulative and toxic

PC Product category

PNEC Predicted No Effect Concentration

PROC Process Category

REACH Registration, Evaluation and Authorization of Chemicals

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 1 Aug 2023 Print date: 15 Feb 2024

Version: 2 Page 11/11



# Putty HD Flex + Hardener 1kg

RID Dangerous goods regulations for transport by rail

SCL Specific concentration limit

TRGS Technische Regeln für Gefahrstoffe

UN United Nations

VOC Volatile organic compounds

# 16.3. Key literature references and sources for data

No data available

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (Flam. Liq. 3)	H226: Flammable liquid and vapour.	
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
Reproductive toxicity (Repr. 2)	H361d: Suspected of damaging the unborn child.	
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure.	

# 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements			
H226	Flammable liquid and vapour.		
H304	May be fatal if swallowed and enters airways.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H361d	Suspected of damaging the unborn child.		
H372	Causes damage to organs through prolonged or repeated exposure.		
H412	Harmful to aquatic life with long lasting effects.		

# 16.6. Training advice

No data available

# 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks