

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Substance/Mixture identifier

Product form : Mixture
Trade name : POLYESTER PUTTY

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

1.2.1. Relevant identified uses

Use of the substance/mixture. : Repair putty

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : +90(224)449 02 20

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

Flammable Liquids, Hazard Category 3	H226
Skin Corrosion/irritation, Hazard Category 2	H315
Serious Eye Damage/Eye Irritation, Hazard Category 2	H319
Reproductive Toxicity, Hazard Category 2	H361
Specific Target Organ Toxicity - Repeated Exposure, Hazard Category 1	H372

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

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

Hazard Pictograms (CLP) :



Signal Word (CLP) : Danger

Hazardous ingredients : Styrene

Hazard Statements (CLP) : H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H361 - Suspected of damaging fertility or the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements (CLP) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. -No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P314 - Get medical advice/attention if you feel unwell.
 P321 - Specific treatment (see Section 4 on this label)
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P370+P378 - In case of fire: Use carbondioxide, foam to extinguish.
 P403+P235 - Store in a well-ventilated place. Keep cool.
 P405 - Store locked up.
 P501 - Dispose of contents/container in accordance with related laws and local/ regional regulations.

2.3. Other hazards

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Styrene	(CAS no) 100-42-5 (EC no) 202-851-5 (EC index no) 601-026-00-0	12 - 20	Flam. Liq. 3, H226 Repr. 2, H361d Acute Tox. 4 (Inhalation), H332 STOT RE 1, H372 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing
 First-aid measures after skin contact : Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
 First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 First-aid measures after ingestion : Call a POISON CENTER or doctor if you feel unwell.

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

Symptoms/injuries after skin contact : Irritation.
 Symptoms/injuries after eye contact : Eye irritation.

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

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
 Unsuitable extinguishing media : Water with full jet

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
 Hazardous decomposition products in case of fire : Toxic fumes can be beformed.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Stop leak if safe to do so.
 Firefighting instructions : Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. Evacuate area.

6.1.1. For non emergency personnel

Emergency procedures : Ventilate spillage area. No smoke, open flame and sparks. Do not get in eyes, on skin or on clothing. Do not breathe fume, gas, fog, vapours. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to Section 8: "Exposure Controls/Personal Protection".

Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling : Provide well-ventilation in the work area. Keep away from heat, sparks, open flames, hot surfaces and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes..

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Incompatible products : Oxidizing agent.

Incompatible materials : Sources of ignition.

Maximum shelf life : 1 year

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Styrene (100-42-5)		
Belgium	Limit value (mg/m ³)	173 mg/m ³ (Styrène (monomère); Belgium; Valeur d'exposition moyenne pondérée dans le temps 8h)
Belgium	Limit value (ppm)	40 ppm (Styrène (monomère); Belgium; Valeur d'exposition moyenne pondérée dans le temps 8h)
Belgium	Short-term value (mg/m ³)	346 mg/m ³ (Styrène (monomère); Belgium; Valeur courte durée)
Belgium	Short-term value (ppm)	80 ppm (Styrène (monomère); Belgium; Valeur courte durée)
France	VME (mg/m ³)	215 mg/m ³ (Styrène; France; Valeur d'exposition moyenne pondérée dans le temps 8h; VL: Valeur non réglementaire indicative)

Styrene (100-42-5)		
France	VME (ppm)	50 ppm (Styrène; France; Valeur d'exposition moyenne pondérée dans le temps 8h; VL: Valeur non réglementaire indicative)
UK	WEL TWA (mg/m ³)	430 mg/m ³ Styrene; UK; Valeur d'exposition moyenne pondérée dans le temps 8h; Workplace exposure limit (EH40/2005)
UK	WEL TWA (ppm)	100 ppm Styrene; UK; Valeur d'exposition moyenne pondérée dans le temps 8h; Workplace exposure limit (EH40/2005)
UK	WEL STEL (mg/m ³)	1080 mg/m ³ Styrene; UK; Valeur courte durée; Workplace exposure limit (EH40/2005)
UK	WEL STEL (ppm)	250 ppm Styrene; UK; Valeur courte durée; Workplace exposure limit (EH40/2005)
USA - ACGIH	ACGIH TWA (ppm)	20 ppm (Styrene, monomer; USA; Valeur d'exposition moyenne pondérée dans le temps 8h; TLV - Adopted Value)
USA - ACGIH	ACGIH STEL (ppm)	40 ppm (Styrene, monomer; USA; Valeur courte durée; TLV - Adopted Value)

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection



Environmental exposure

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Paste
Colour	: Specific
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Evaporation rate	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 34 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available

Vapour density, at 20 °C	: No data available
Density, at 20 °C	: 0,90 - 1,90 g/cm ³
Water solubility	: No data available
Log Pow	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames and sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of use and storage, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxic : Not classified.

styrene, (100-42-5)	
LD50 oral (rat)	5000 mg/kg (Rat; Literature study; >6000 mg/kg bodyweight; Rat; bodyweight)
LD50 dermal (rat)	2820 mg/kg (Rat; Literature study; OECD 402: Acute Skin Toxicity; >2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal (rabbit)	5010 mg/kg (Rabbit; Literature study)
LC50 inhalation, rat (mg/l)	12 mg/l/4 h (Rat; Literature study)
LC50 inhalation, rat (ppm)	2770 ppm/4 h (Rat; Literature study)

Skin corrosion/ irritation	: Causes skin irritation.
Serious damage to eyes/eye irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity (single exposure)	: Not classified.
Specific Target Organ Toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - air	: Styrene, (100-42-5) Not classified dangerous to ozone layer (EC No.1005/2009). Not included in the list of Fluorinated Greenhouse Gases (EC No. 842/2006). TA-Luft Klasse 5.2.5.

12.2. Persistence and degradability

styrene, (100-42-5)	
Persistence and degradability	Readily biodegradable in water. Non-biodegradation in soil. Photodegradation in air.
Chemical oxygen demand (COD)	2.80 g O ₂ /g substance
ThOD	3.07 g O ₂ /g substance
BOD (ThOD %)	0.42

12.3. Bioaccumulative potential

styrene, (100-42-5)	
BCF fish 1	35.5 (BCF)
Log Pow	2.96 (Experimental value; OECD 107: Log Pow: Shake Flask Method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulate (BCF < 500).

12.4. Mobility in soil

styrene, (100-42-5)	
Surface tension	0.032 N/m (19 °C)
Log Koc	Koc,352; Predictive value; log Koc; 2.55; Predictive value

12.5. Results of PBT ve vPvB assessment

No additional information available.

12.6. Other adverse effects

No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN Number

UN no. (ADR)	: 3269
UN no. (IMDG)	: 3269
UN no. (IATA)	: 3269
UN no. (ADN)	: 3269
UN no. (RID)	: 3269

14.2. UN proper shipping name

Proper shipping name (ADR)	: POLYESTER RESIN KIT
Proper shipping name (IMDG)	: POLYESTER RESIN KIT
Proper shipping name (IATA)	: Polyester resin kit
Proper shipping name (ADN)	: POLYESTER RESIN KIT
Proper shipping name (RID)	: POLYESTER RESIN KIT

Transport document description (ADR)	: UN 3269 POLYESTER RESIN KIT, 3, III, (E)
Transport document description (IMDG)	: UN 3269 POLYESTER RESIN KIT, 3, III
Transport document description (IATA)	: UN 3269 Polyester resin kit, 3, III
Transport document description (ADN)	: UN 3269 POLYESTER RESIN KIT, 3, III
Transport document description (RID)	: UN 3269 POLYESTER RESIN KIT, 3, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es)	: 3
Danger labels	: 3

: 

IMDG

Transport hazard class(es) : 3

Danger labels : 3



IATA

Transport hazard class(es) : 3

Danger labels : 3



ADN

Transport hazard class(es) : 3

Danger labels : 3



RID

Transport hazard class(es) : 3

Danger labels : 3



14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available.

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F3

Special provisions (ADR) : 236, 340

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P302, R001

Transport category (ADR) : 3

Special provisions for carriage - Operation (ADR) : S2

Tunnel restriction code (ADR) : E

EAC kodu : •2YE

- Transport by sea

Special provisions (IMDG)	: 236, 340
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: SP340
Packing instructions (IMDG)	: P302
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A

- Air transport

PCA excepted quantities (IATA)	: E0
PCA limited quantities (IATA)	: Y370
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 370
PCA max net quantity (IATA)	: 10kg
CAO packing instructions (IATA)	: 370
CAO max net quantity (IATA)	: 10kg
Special provisions (IATA)	: A66, A163
ERG code (IATA)	: 3L

- Inland waterway transport

Classification code (ADN)	: F3
Special provisions (ADN)	: 236, 340
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: F3
Special provisions (RID)	: 236, 340
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P302, R001
Transport category (RID)	: 3
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

15.1.1. EU regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Styrene is listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product.
Pregnant/breastfeeding women working with the product must not be in direct contact with product.
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

15.3. Additional information

Other references :

- Commission Regulation (EU) No 2015/830 on the Registration, Evaluation, Authorisation and Restriction of Chemicals
- Commission Regulation (EU) No 1272/2008 on classification, labelling and packaging of substance and mixtures
- Directive 76/769/EEC on the approximation of the laws, regulations and administrative provisions of the Member States relating to restrictions on the marketing and use of certain dangerous substances and preparations
- Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work
- Management of Health and Safety at Work Regulations (2006)
- Personal Protective Equipment Regulations (2002)
- Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
- Council Directive 90/269/EEC on the minimum health and safety requirements for the manual handling of loads where there is a risk particularly of back injury to workers

SECTION 16: OTHER INFORMATION

Full text of H and EUH statements / Abbreviations :

Acute Tox. 4 (Inhalation)	Acute Toxicity (inhalation), Hazard Category 4
Eye Irrit. 2	Serious Eye Damage/Eye Irritation, Hazard Category 2
Flam. Liq. 3	Flammable Liquids, Hazard Category 3
Repr. 2	Reproductive Toxicity, Hazard Category 2
Skin Irrit. 2	Skin irritation/Corrosion, Hazard Category 2
STOT RE 1	Specific Target Organ Toxicity, Repeated Exposure, Hazard Category 1
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
ADR	European Agreement Concerning the International Carriage of Dangerous Good by Road
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
ADN	European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product