

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

1.1. Product identifier

Product form : Mixture
Trade name : Plastfill-Polyester putty for plastic- 1 kg + hardener
Product code : GAP 70

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 : Bodyfiller/stopper

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Chemicar Europe NV
Baarbeek 2
2070 Zwijndrecht
T +32 (0) 3 234 87 80 - F +32 (0) 3 234 87 89
info@chemicar.eu

1.4. Emergency telephone number

Emergency number : +32 (0) 3 760 08 09

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity — Repeated exposure, Category 1	H372
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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.
H361d - Suspected of damaging 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.
P260 - Do not breathe vapours.
P280 - Wear protective gloves, eye protection.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Plastfill-Polyester putty for plastic- 1 kg + hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures

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	15 - 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
2,2'-[(4-methylphenyl)	(CAS-No.) 3077-12-1 (EC-No.) 221-359-1	0.25 - 0.5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
ethanediol; ethylene glycol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1	0.1 - 0.25	Acute Tox. 4 (Oral), H302
butanone; ethyl methyl ketone	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index-No.) 606-002-00-3	0.01 - 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Rinse skin with water/shower.
First-aid measures after eye contact	: Rinse opened eye for several minutes under running water. Then consult doctor.
First-aid measures after ingestion	: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

Symptoms/effects : More detailed information: See section 11.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry extinguishing powder. carbon dioxide (CO ₂).
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: In case of fire and/or explosion do not breathe fumes.
Reactivity in case of fire	: Fire will produce dense black smoke. Carbon oxides (CO, CO ₂).

5.3. Advice for firefighters

Precautionary measures fire	: Move containers from fire area if it can be done without personal risk.
Protection during firefighting	: Approved respirator.
Other information	: Prevent fire fighting water from entering the environment. Dyke fire control water for later disposal.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear suitable protective clothing. Warn road users and passers by to keep away from danger area. Eliminate every possible source of ignition.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. See Heading 8.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses. Dam up the solid spill. Notify authorities if product enters sewers or public waters. Contain or absorb spilled liquid with non-combustible material.

Plastfill-Polyester putty for plastic- 1 kg + hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Minimise generation of dust. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

SECTION 8. SECTION 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Avoid contact with skin and eyes. Do not breathe vapours. Handle and open container with care.

Hygiene measures

: Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Keep in a cool, well-ventilated place away from heat.

Storage conditions

: Keep container tightly closed.

Heat and ignition sources

: Use and store away from all naked flames, heat sources or working electrical appliances. Do not smoke. All heat sources, including direct sunlight.

Storage area

: Store in a well-ventilated place. Keep away from food and drink.

7.3. Specific end use(s)

1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

styrene - CAS: 100-42-5

EU - TWA(8h): 85 mg/m³, 20 ppm - STEL(): 170 mg/m³, 40 ppm - Notes: Pelle
ACGIH - TWA(8h): 20 ppm - STEL: 40 ppm - Notes: A4, BEI - CNS impair, URT irr, peripheral neuropathy

ethanediol; ethylene glycol - CAS: 107-21-1

Italy - TWA(8h): 52 mg/m³, 20 ppm - STEL(): 104 mg/m³, 40 ppm
EU - TWA(8h): 52 mg/m³, 20 ppm - STEL: 104 mg/m³, 40 ppm - Notes: Skin
ACGIH - STEL: Ceiling 100 mg/m³ - Notes: (H), A4 - URT and eye irr

butanone - CAS: 78-93-3

Italy - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm
EU - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm
ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

DNEL Exposure Limit Values

styrene - CAS: 100-42-5

Worker Professional: 406 mg/kg - Consumer: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 2.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 85 mg/m³ - Consumer: 10.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 289 mg/m³ - Consumer: 174.25 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 306 mg/m³ - Consumer: 182.75 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

ethanediol; ethylene glycol - CAS: 107-21-1

Worker Professional: 106 mg/kg - Consumer: 53 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 35 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

butanone - CAS: 78-93-3

Worker Professional: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 600 mg/m³ - Consumer: 106 mg/l - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 31 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

styrene - CAS: 100-42-5

Target: Fresh Water - Value: 0.028 mg/l
Target: Marine water - Value: 0.028 mg/l
Target: Freshwater sediments - Value: 0.614 mg/kg
Target: Marine water sediments - Value: 0.0614 mg/kg
Target: Soil (agricultural) - Value: 0.2 mg/kg
Target: 14 - Value: 0.04 mg/l
Target: Purification plant - Value: 5 mg/l

ethanediol; ethylene glycol - CAS: 107-21-1

Target: STP - Value: 10 mg/l
Target: Soil - Value: 1.53 mg/kg
Target: Fresh Water - Value: 10 mg/l
Target: Marine water - Value: 1 mg/l
Target: Intermittent emissions - Value: 10 mg/l
Target: Freshwater sediments - Value: 20.9 mg/kg

Plastfill-Polyester putty for plastic- 1 kg + hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

butanone - CAS: 78-93-3

Target: Freshwater sediments - Value: 284.7 mg/kg
Target: Soil - Value: 22.5 mg/kg
Target: Oral - Value: 1000 mg/kg
Target: Fresh Water - Value: 55.8 mg/l
Target: Intermittent emissions - Value: 55.8 mg/l
Target: Purification plant - Value: 709 mg/l

8.2. Exposure controls

Hand protection:

protective gloves. VITON gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
		3 (> 60 minutes)	>= 0.4		EN ISO 374

Eye protection:

Fitting safety glasses conforming to BS 2092 GRADE 1).

Protection for skin

Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek).
Please note: safety clothing must be changed immediately if it comes in contact with product.

Respiratory protection

Use adequate protective respiratory devices, using Filter "A" (Brown colour) for organic gas and vapors with boiling points over 65°C.

Personal protective equipment symbol(s):



Other information:

Keep away from food and drink. Take off immediately all contaminated clothing. Wash hands before breaks and after work. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: No data available
Appearance	: Paste.
Colour	: dark grey.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: - 31 °C
Boiling point	: 145 °C
Flash point	: 32 °C
Auto-ignition temperature	: 490 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not self-igniting
Vapour pressure	: 6.67 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.33 g/cm ³
Solubility	: Insoluble.
Log Pow	: No data available
Viscosity, kinematic	: > 20.5 mm ² /s (40°C)
Viscosity, dynamic	: No data available

Plastfill-Polyester putty for plastic- 1 kg + hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

May react violently with combustible materials. It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: LD50 oral rat
Acute toxicity (dermal)	: LD50 dermal rat
Acute toxicity (inhalation)	: LC50 inhalation rat (Dust/Mist - mg/l/4h)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: May damage the unborn child.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: May cause damage to organs (hearing organs) through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

Plastfill-Polyester putty for plastic- 1 kg + hardener

Viscosity, kinematic	> 20.5 mm ² /s
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Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

styrene - CAS: 100-42-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 11.8 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Notes: OECD 402

i) STOT-repeated exposure:

Test: LOAEL(C) - Route: Oral - Species: Rat = 2000 mg/kg - Notes: bw/day

Test: NOAEL(C) - Route: Oral - Species: Rat = 1000 mg/kg - Notes: bw/day

Test: LOAEL(C) - Route: Inhalation - Species: Rat = 0.21 mg/l

ethanediol; ethylene glycol - CAS: 107-21-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 7712 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 2.5 mg/l

Test: LD50 - Route: Skin - Species: Mouse > 3500 mg/kg

butanone - CAS: 78-93-3

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Mouse = 40 mg/l

Test: LD50 - Route: Oral - Species: Rat = 2737 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 13 g/kg

Plastfill-Polyester putty for plastic- 1 kg + hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

styrene - CAS: 100-42-5

Symptoms may appear many hours after exposure. Medical observation is therefore necessary for 48 hours after exposure. May cause sleepiness or dizziness. Inhalation: may irritate respiratory tract. Ingestion: may irritate gastrointestinal tract, along with nausea, vomit and diarrhea, disorientation. Inhalation, skin contact or ingestion may result in reduced fetal weight, increase risk of fetal death, skeletal malformations.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Additional information	: No data available.

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

Styrene - CAS: 100-42-5

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 4.02 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 4.9 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia = 4.7 mg/kg - Duration h: 48
Endpoint: EC10 - Species: Algae = 0.28 mg/l - Duration h: 96

b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 1.01 mg/l - Duration h: 504
butanone - CAS: 78-93-3

a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 3220 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 520 mg/l - Duration h: 48

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

Plastfill-Polyester putty for plastic- 1 kg + hardener

Ecology - soil	Do not flush into surface water or sewer system. Danger of drinking-water pollution (ground water). Hazardous to water (WGK 2). May cause long-term adverse effects in the aquatic environment.
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12.5. Results of PBT and vPvB assessment

Plastfill-Polyester putty for plastic- 1 kg + hardener

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps. Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Do not dispose of the packaging without first carrying out the necessary cleaning.




SECTION 14: Transport information

In accordance with ADR / RID

Plastfill-Polyester putty for plastic- 1 kg + hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN
14.1. UN number			
UN 3269	UN 3269	UN 3269	Not applicable
14.2. UN proper shipping name			
POLYESTER RESIN KIT	POLYESTER RESIN KIT	Polyester resin kit	Not applicable
Transport document description			
UN 3269 POLYESTER RESIN KIT (), 3, III, (E)	UN 3269 POLYESTER RESIN KIT, 3, III	UN 3269 Polyester resin kit, 3, III	Not applicable
14.3. Transport hazard class(es)			
3	3	3	Not applicable
			Not applicable
14.4. Packing group			
III	III	III	Not applicable
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E0
Transport category (ADR)	: 3
Tunnel restriction code (ADR)	: E

Rail transport

Not applicable

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	styrene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	styrene
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	styrene

Plastfill-Polyester putty for plastic- 1 kg + hardener

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	styrene
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Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

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.