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

1.1 Product identifier

Trade name: <u>FILL PUTTY (YELLOW)</u> **1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified uses: professional use. **Application of the substance / the mixture** Knife filler/ Surfacer

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Chemical Alliance Polska Sp. z o.o. ul. Prosta 23, Łozienica 72-100 Goleniów Tel. +48 91 41 65 440 info@cap.pl

Further information obtainable from: sds@cap.pl 1.4 Emergency telephone number: +48 91 41 65 440 (8:00-16:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

GHS02

Flam. Liq. 3 H226 Flammable liquid and vapour.



Repr. 2H361d Suspected of damaging the unborn child.STOT RE 1H372Causes damage to the hearing organs through prolonged or repeated exposure.



Skin Irrit. 2 H315	Causes skin irritation.
Eye Irrit. 2 H319	Causes serious eye irritation.
Skin Sens. 1 H317	May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms



Signal word Danger

Hazard-determining components of labelling: styrene maleic anhydride 2,2'-(m-tolylimino)diethanol Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation.

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	(cond. of page 1)
H317 M	ay cause an allergic skin reaction.
H361d Su	ispected of damaging the unborn child.
H372 Ca	auses damage to the hearing organs through prolonged or repeated exposure.
Precautio	onary statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P3	13 If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other Results of	hazards f PBT and vPvB assessment
	t applicable.
	t applicable.
VI VD. 110	i uppicuoic.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:	Dangerous components:		
CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	styrene Flam. Liq. 3, H226; Repr. 2, H361d; STOT RE 1, H372; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	10-<20%	
CAS: 91-99-6 EINECS: 202-114-8 Reg.nr.: 01-2120791683-42	2,2'-(m-tolylimino)diethanol STOT RE 2, H373; I Eye Dam. 1, H318; I Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	0.1-<1%	
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; (1) Eye Irrit. 2, H319; STOT SE 3, H336	0.1-<1%	
CAS: 2687-91-4 EINECS: 220-250-6 Reg.nr.: 01-2119472138-36	N-Ethyl-2-Pyrrolidone 🗞 Repr. 1B, H360D; 🚸 Eye Dam. 1, H318	0.1-<0.3%	
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-31	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: $C \ge 0.001$ %	0.001-0.1%	

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. Take affected persons out of danger area and lay down. **After inhalation:** Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. **After skin contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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After swallowing: Do not induce vomiting; call for medical help 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 agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Additional information
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Avoid contact with the eyes and skin.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents.
Dispose of the material collected according to regulations.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Do not allow to enter sewers/ surface or ground water.
Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.

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7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidising agents.
Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:		
100-42-5 styrene		
WEL (Great Britain) Short-term value: 1080 mg/m ³ , 250 ppm Long-term value: 430 mg/m ³ , 100 ppm		
141-78-6 ethyl aceta	te	
WEL (Great Britain)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm	
IOELV (EU)	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm	
108-31-6 maleic anhydride		
WEL (Great Britain)	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ Sen	

Regulatory information WEL (Great Britain): EH40/2020 IOELV (EU): (EU) 2019/1831

100-42-5 s			
Dermal	DNEL	406 mg/kg bw/day (long-term - systemic effects, workers)	
Inhalative	DNEL	289 mg/m3 (acute - systemic effects, workers)	
		306 mg/m3 (acute - local effects, workers)	
		85 mg/m3 (long-term - systemic effects, workers)	
141-78-6 е	ethyl ac	etate	
Dermal	DNEL	63 mg/kg bw/day (long-term - systemic effects, workers)	
Inhalative	DNEL	1,468 mg/m3 (acute - systemic effects, workers)	
		1,468 mg/m3 (acute - local effects, workers)	
		734 mg/m3 (long-term - systemic effects, workers)	
		734 mg/m3 (long-term - local effects, workers)	
PNECs			
100-42-5 s	styrene		
PNEC 0.0)28 mg/l	(freshwater environment)	
0.0	028 mg	/l (marine environment)	
0.04 mg/l (intermittent releases)			
5 n	ng/l (sev	vage treatment plants)	
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PNEC	0.614 mg/kg (freshwater sediment environment)	
	0.0614 mg/kg (marine sediment environment)	
	0.2 mg/kg (soil)	
141-78	-6 ethyl acetate	
PNEC	0.24 mg/l (freshwater environment)	
	0.024 mg/l (marine environment)	
	1.65 mg/l (intermittent releases)	
	650 mg/l (sewage treatment plants)	
PNEC	1.15 mg/kg (freshwater sediment environment)	
	0.115 mg/kg (marine sediment environment)	
Additic	Additional information: The lists valid during the making were used as basis.	
8.2 Ex	8.2 Exposure controls	

Personal protective equipment:

General protective and hygienic measures: Ensure good ventilation/exhaustion at the workplace. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Keep ignition sources away - Do not smoke. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

Do not eat or drink while working.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter A2/P2

Protection of hands:



Protective gloves

Check the permeability prior to each anewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374).

Material of gloves

Fluorocarbon rubber (Viton)

Recommended thickness of the material: $\geq 0,7$ mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Value for the permeation: Level $6 \ge 480$ *min.*

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

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Body protection: Protective work clothing

SECTION 9: Physical and chemical properties				
9.1 Information on basic physical and c General Information Appearance:	hemical properties			
Appearance: Form:	Pasty			
Colour:	Different according to colouring			
Odour:	Characteristic			
Odour threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : 145 °C			
Flash point:	31 °C			
Flammability (solid, gas):	Not applicable.			
Decomposition temperature:	Not determined.			
Auto-ignition temperature:	Not determined.			
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.			
Explosion limits:				
Lower:	1.1 Vol %			
Upper:	6.1 Vol %			
Vapour pressure at 20 °C:	6.7 hPa			
Density at 20 °C:	1.9 g/cm^3			
Vapour density	Not determined.			
Evaporation rate	Not determined.			
Solubility in / Miscibility with water:	Not miscible or difficult to mix.			
Partition coefficient: n-octanol/water:	Not determined.			
Viscosity: Dynamic: Kinematic: 9.2 Other information	Not determined. Not determined. No further relevant information available.			

SECTION 10: Stability and reactivity

10.1 Reactivity No decomposition if used according to specifications.

10.2 Chemical stability No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Exothermic polymerisation.

Reacts with peroxides and other radical forming substances.

Fumes can combine with air to form an explosive mixture.

10.4 Conditions to avoid Protect from heat and direct sunlight.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50	LD/LC50 values relevant for classification:		
100-42-5 s	100-42-5 styrene		
Oral	LD50	5,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
Inhalative	LC50/4 h	11.8 mg/l (rat)	
91-99-6 2,	2'-(m-tolyl	imino)diethanol	
Oral	LD50	500 mg/kg (ATE)	
141-78-6 е	141-78-6 ethyl acetate		
Oral	LD50	6,100 mg/kg (rat)	
Dermal	LD50	>20,000 mg/kg (rabbit)	
Inhalative	Inhalative LC50/6 h 58 mg/l (rat)		
108-31-6 1	108-31-6 maleic anhydride		
Oral	LD50	1,090 mg/kg (rat)	
Dermal	LD50	2,620 mg/kg (rabbit)	
Primary ir	Primary irritant effect:		

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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

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

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 the hearing organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

12.1 Toxic	12.1 Toxicity			
Aquatic to.	Aquatic toxicity:			
100-42-5 s	tyrene			
LC50/96 h	4.02 mg/l (Pimephales promelas)			
EC50/48 h	4.7 mg/l (Daphnia magna)			
EC50/72 h	4.9 mg/l (Pseudokirchnerella subcapitata)			
91-99-6 2,.	91-99-6 2,2'-(m-tolylimino)diethanol			
EC50/48 h	107 mg/l (Daphnia magna)			
EC50/72 h	>100 mg/l (Pseudokirchnerella subcapitata)			
LC50/48 h	>102 mg/l (fish)			
141-78-6 ethyl acetate				
LC50/96 h	230 mg/l (Pimephales promelas)			

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EC50/48 h 165 mg/l (Daphnia cucullata)		
EC50/72 h >900 mg/l (Scenedesmus subspicatus)		
EC3/16 h 650 mg/l (Pseudomonas putida)		
12.2 Persistence and degradability		
100-42-5 styrene		
Biodegradation 70.9 % (readily biodegradable) (ISO 9408, 28 d, aerobic)		
141-78-6 ethyl acetate		
Biodegradation 93.9 % (readily biodegradable) (OECD 301 B, aerobic)		
12.3 Bioaccumulative potential		
100-42-5 styrene		
BCF 74 (-)		
log Pow 2.96		
91-99-6 2,2'-(m-tolylimino)diethanol		
log Kow 1.9		
141-78-6 ethyl acetate		
BCF 30 (-)		
log Pow 0.66		
12.4 Mobility in soil		
100-42-5 styrene		
log Koc 2.55		
Koc 352		
Additional ecological information:	,	
General notes:		
Do not allow product to reach ground water, water course or sewage system.		
Danger to drinking water if even small quantities leak into the ground. 12.5 Results of PBT and vPvB assessment		
PBT: Not applicable.		
vPvB: Not applicable.		
12.6 Other adverse effects No further relevant information available.		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
14.1 UN-Number ADR, IMDG, IATA	UN1866
14.2 UN proper shipping name	
ADR	1866 RESIN SOLUTION mixture
IMDG, IATA	RESIN SOLUTION mixture
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14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3
Label	3
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	Not applicable.
Marine pollutant (IMDG):	No
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	F-E, <u>S-E</u> A
Stowage Category	
14.7 Transport in bulk according to Annex II of M and the IBC Code	larpol Not applicable.
Transport/Additional information:	11
ADR	
Limited quantities (LQ)	5L
Transport category	3
Tunnel restriction code	D/E
Remarks:	ADR 2.2.3.1.5
IMDG	
Limited quantities (LQ)	5L
Remarks:	IMDG 2.3.2.5
UN "Model Regulation":	UN 1866 RESIN SOLUTION MIXTURE, 3, III

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. *Seveso category* P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 tQualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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 is listed.

National regulations:

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H360D May damage the unborn child.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to the hearing organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	Bridging principles
	The classification of the mixture is generally based on the
Serious eye damage/eye irritation	calculation method using substance data according to Regulation
Skin sensitisation	(EC) No 1272/2008.
Reproductive toxicity	
Specific target organ toxicity (repeated exposure)	

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - inhalation - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Sensitisation - Respiratory. Hazard category 1 Skin Sens. 1: Sensitisation - Skin. Hazard Category 1 Skin Sens. 1A: Sensitisation - Skin. Hazard Category 1A Skin Sens. 1B: Sensitisation - Skin. Hazard Category 1B Repr. 1B: Reproductive toxicity. Hazard Category 1B Repr. 2: Reproductive toxicity. Hazard Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1



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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 Sources European Chemicals Agency, http://echa.europa.eu/

* Data compared to the previous version altered.