Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

amended by 2020/878/EU

GENERIC EU SDS - NO COUNTRY SPECIFIC DATA

Polyester putty - alu

Version number: 1.1 Date of compilation: 12.06.2026

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

1.1 Product identifier

Trade name	**Polyester putty - alu**
Registration number (REACH)	not relevant (mixture)
Unique formula identifier (UFI)	M3R9-CV5K-9N98-F466
Article number	GAP 50

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

Relevant identified uses	Putty For professional users only

1.3 Details of the supplier of the safety data sheet

Chemicar Europe NV
Keetberglaan 1D
Haven 1087
9120 Melsele
Belgium

Telephone: +32 3 234 87 80
e-mail: msds@emm.com
Website: www.finixa.com

e-mail (competent person)	msds@emm.com

1.4 Emergency telephone number

Emergency information service	+31 38 4676600 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard state-ment
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.7	reproductive toxicity	2	Repr. 2	H361d
3.9	specific target organ toxicity - repeated exposure	1	STOT RE 1	H372
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- signal word Danger

- pictograms

GHS02, GHS07, GHS08

- hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (hearing organs) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

- precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P403+P235	Store in a well-ventilated place. Keep cool.

- hazardous ingredients for labelling

Contains: Maleic anhydride; Styrene; Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-; 2,2'-(m-tolylimino)diethanol.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Contains an endocrine disruptor (ED) at a concentration of ≥ 0,1%. (Section 11 & 12).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Remarks
Styrene	CAS No 100-42-5 EC No 202-851-5 Index No 601-026-00-0 REACH Reg. No 01-2119457861-	≥ 10 – ≤ 20	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Repr. 2 / H361d STOT SE 3 / H335 STOT RE 1 / H372 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412		D GHS-HC	EDC

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Remarks
	32-xxxx					
aluminium powder (stabilised)	CAS No 7429-90-5 EC No 231-072-3 Index No 013-002-00-1 REACH Reg. No 01-2119529243-45-xxxx	2,5 – < 10	Flam. Sol. 1 / H228 Water-react. 2 / H261		GHS-HC T	
Hydrocarbons, C9, aromatics	CAS No 64742-95-6 EC No 918-668-5 REACH Reg. No 01-2119455851-35-xxxx	1 – < 2,5	Flam. Liq. 3 / H226 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066			
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	EC No 911-490-9 REACH Reg. No 01-2119979579-10-xxxx	≥ 0,1 – < 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Aquatic Chronic 3 / H412			
2,2'-(m-tolylimino)diethanol	CAS No 91-99-6 EC No 202-114-8 REACH Reg. No 01-2120791683-42-xxxx	≥ 0,1 – < 1	Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1B / H317 STOT RE 2 / H373			
Maleic anhydride	CAS No 108-31-6 EC No 203-571-6 Index No 607-096-00-9 REACH Reg. No 01-2119472428-31-xxxx	≥ 0,001 – < 0,1	Acute Tox. 4 / H302 Skin Corr. 1B / H314 Eye Dam. 1 / H318 Resp. Sens. 1 / H334 Skin Sens. 1A / H317 STOT RE 1 / H372 EUH071		GHS-HC	

Notes

D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

EDC: endocrine disrupting chemicals

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

T: This substance may be marketed in a form which does not have the physical hazards as indicated by The classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Styrene	CAS No 100-42-5	-	-	11,8 $^{mg}/_{l}$/4h	inhalation: vapour
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		-	-	619 $^{mg}/_{kg}$	oral
2,2'-(m-tolylimino)diethanol	CAS No 91-99-6	-	-	>300 $^{mg}/_{kg}$	oral
Maleic anhydride	CAS No 108-31-6	Skin Sens. 1A; H317: C ≥ 0,001 %	-	1.090 $^{mg}/_{kg}$	oral

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. Call a POISON CENTER/doctor.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO2);
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. Carbon monoxide (CO). Carbon dioxide (CO2).

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 137). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

No information available. Generic EU SDS - No country specific limit values mentioned.

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Styrene	100-42-5	DNEL	85 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Styrene	100-42-5	DNEL	289 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Styrene	100-42-5	DNEL	306 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Styrene	100-42-5	DNEL	406 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Styrene	100-42-5	DNEL	10,2 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Styrene	100-42-5	DNEL	174,3 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
Styrene	100-42-5	DNEL	182,8 mg/m³	human, inhalatory	consumer (private households)	acute - local effects
Styrene	100-42-5	DNEL	343 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Styrene	100-42-5	DNEL	2,1 mg/kg	human, oral	consumer (private	chronic - systemic

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
			bw/day		households)	effects
aluminium powder (stabilised)	7429-90-5	DNEL	3,72 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
aluminium powder (stabilised)	7429-90-5	DNEL	3,72 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
aluminium powder (stabilised)	7429-90-5	DNEL	7,9 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	151 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	12,5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	32 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	7,5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C9, aromatics	64742-95-6	DNEL	7,5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		DNEL	9,8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		DNEL	1,4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		DNEL	1,74 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		DNEL	0,5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		DNEL	0,5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2,2'-(m-tolylimino)diethanol	91-99-6	DNEL	0,8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2,2'-(m-tolylimino)di-ethanol	91-99-6	DNEL	0,8 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
2,2'-(m-tolylimino)di-ethanol	91-99-6	DNEL	0,23 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,2'-(m-tolylimino)di-ethanol	91-99-6	DNEL	0,24 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
2,2'-(m-tolylimino)di-ethanol	91-99-6	DNEL	0,24 mg/m³	human, inhalatory	consumer (private households)	acute - systemic effects
2,2'-(m-tolylimino)di-ethanol	91-99-6	DNEL	0,07 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2,2'-(m-tolylimino)di-ethanol	91-99-6	DNEL	0,14 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2,2'-(m-tolylimino)di-ethanol	91-99-6	DNEL	0,14 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic effects
Maleic anhydride	108-31-6	DNEL	0,081 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Maleic anhydride	108-31-6	DNEL	0,2 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Maleic anhydride	108-31-6	DNEL	0,081 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Maleic anhydride	108-31-6	DNEL	0,2 mg/m³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Styrene	100-42-5	PNEC	0,028 mg/l	aquatic organisms	freshwater	short-term (single instance)
Styrene	100-42-5	PNEC	0,014 mg/l	aquatic organisms	marine water	short-term (single instance)
Styrene	100-42-5	PNEC	5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Styrene	100-42-5	PNEC	0,614 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Styrene	100-42-5	PNEC	0,307 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Styrene	100-42-5	PNEC	0,2 mg/kg	terrestrial organisms	soil	short-term (single instance)
aluminium powder (stabilised)	7429-90-5	PNEC	20 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		PNEC	0,048 mg/l	aquatic organisms	freshwater	short-term (single instance)
Reaction mass of		PNEC	0,005 mg/l	aquatic organisms	marine water	short-term (single

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-						instance)
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		PNEC	1,2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		PNEC	0,12 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		PNEC	0,21 mg/kg	terrestrial organisms	soil	short-term (single instance)
2,2'-(m-tolylimino)diethanol	91-99-6	PNEC	0,107 mg/l	aquatic organisms	freshwater	short-term (single instance)
2,2'-(m-tolylimino)diethanol	91-99-6	PNEC	0,011 mg/l	aquatic organisms	marine water	short-term (single instance)
2,2'-(m-tolylimino)diethanol	91-99-6	PNEC	81,7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,2'-(m-tolylimino)diethanol	91-99-6	PNEC	2,16 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,2'-(m-tolylimino)diethanol	91-99-6	PNEC	0,22 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2,2'-(m-tolylimino)diethanol	91-99-6	PNEC	0,37 mg/kg	terrestrial organisms	soil	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0,038 mg/l	aquatic organisms	freshwater	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0,004 mg/l	aquatic organisms	marine water	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	44,6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0,296 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

Relevant PNECs of components						
Name of substance	**CAS No**	**End-point**	**Threshold level**	**Organism**	**Environmental compartment**	**Exposure time**
Maleic anhydride	108-31-6	PNEC	0,03 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0,037 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN ISO 16321).

Skin protection

Protective clothing (EN ISO 13688).

Hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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.

- type of material

Fluorocarbon rubber (Viton®)

- material thickness

Use gloves with a minimum material thickness: ≥ 0,7 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid (viscous)
Colour	grey

Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	145 °C at 1.013 hPa calculated value, referring to a component of the mixture
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	LEL: 0,9 vol% / UEL: 6,8 vol% calculated value, referring to a component of the mixture
Flash point	34 °C (DIN 53213)
Auto-ignition temperature	>400 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	not determined
Kinematic viscosity	not determined
Dynamic viscosity	90.000 – 100.000 mPa s at 20 °C
Solubility	not determined

Partition coefficient n-octanol/water (log value)	this information is not available

Vapour pressure	35 hPa at 50 °C

Density and/or relative density

Density	1,53 $^{g}/_{cm^3}$ at 20 °C (DIN 53217)
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

Information with regard to physical hazard classes	there is no additional information
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Styrene	100-42-5	inhalation: vapour	11,8 mg/l/4h
Reaction mass of 2,2'-[(4-methylphenyl)imino]bis-ethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		oral	619 mg/kg
2,2'-(m-tolylimino)diethanol	91-99-6	oral	>300 mg/kg
Maleic anhydride	108-31-6	oral	1.090 mg/kg

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Styrene	100-42-5	oral	LD50	5.000 mg/kg	rat
Styrene	100-42-5	inhalation: vapour	LC50	11,8 mg/l/4h	rat
Styrene	100-42-5	dermal	LD50	>2.000 mg/kg	rat
aluminium powder (stabilised)	7429-90-5	oral	LD50	>15.900 mg/kg	rat
Hydrocarbons, C9, aromatics	64742-95-6	oral	LD50	7.093 mg/kg	rat
Hydrocarbons, C9, aromatics	64742-95-6	dermal	LD50	>2.000 mg/kg	rabbit
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		oral	LD50	619 mg/kg	rat

Acute toxicity of components					
Name of substance	**CAS No**	**Exposure route**	**Endpoint**	**Value**	**Species**
Reaction mass of 2,2'-[(4-methyl-phenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methyl-phenyl)amino]-		dermal	LD50	>2.000 $^{mg}/_{kg}$	rat
2,2'-(m-tolylimino)diethanol	91-99-6	oral	LD50	>300 – <2.000 $^{mg}/_{kg}$	rat
2,2'-(m-tolylimino)diethanol	91-99-6	dermal	LD50	>2.000 $^{mg}/_{kg}$	rat
Maleic anhydride	108-31-6	oral	LD50	1.090 $^{mg}/_{kg}$	rat
Maleic anhydride	108-31-6	dermal	LD50	2.620 $^{mg}/_{kg}$	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Causes damage to organs (hearing organs) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
1	hearing organs	if exposed

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Contains an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

Endocrine disrupting chemicals (EDC)				
Name of substance	**CAS No**	**Human health category**	**Wildlife category**	**Reference decision**
Styrene	100-42-5	CAT1	CAT3	EM 1999

Legend

CAT1	Category 1 - evidence of endocrine disruption in at least one species using intact animals
CAT3	Category 3 - no evidence of endocrine disruption or no data available

Other information

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Styrene	100-42-5	ErC50	4,9 mg/l	algae	72 h
Styrene	100-42-5	LC50	10 mg/l	fathead minnow (Pimephales promelas)	96 h
Styrene	100-42-5	EC50	3,32 mg/l	fathead minnow (Pimephales promelas)	96 h
Styrene	100-42-5	NOEC	1,9 mg/l	daphnia magna	48 h
Styrene	100-42-5	growth rate (Er-Cx) 10%	0,28 mg/l	algae	96 h
Hydrocarbons, C9, aromatics	64742-95-6	LL50	9,2 mg/l	rainbow trout (Onco-rhynchus mykiss)	96 h
Hydrocarbons, C9, aromatics	64742-95-6	EL50	3,2 mg/l	daphnia magna	48 h
Hydrocarbons, C9, aromatics	64742-95-6	NOEC	0,07 mg/l	algae	72 h
Hydrocarbons, C9, aromatics	64742-95-6	NOELR	1 mg/l	algae	72 h
Reaction mass of 2,2'-[(4-methyl-phenyl)imino]bisethanol and Eth-anol 2-[[2-(2-hydroxyethoxy)ethyl](4-methyl-phenyl)amino]-		LC50	>100 mg/l	fish	96 h
Reaction mass of 2,2'-[(4-methyl-phenyl)imino]bisethanol and Eth-anol 2-[[2-(2-hydroxyethoxy)ethyl](4-methyl-phenyl)amino]-		EC50	48 mg/l	aquatic invertebrates	48 h
Reaction mass of 2,2'-[(4-methyl-phenyl)imino]bisethanol and Eth-anol 2-[[2-(2-hydroxyethoxy)ethyl](4-methyl-phenyl)amino]-		ErC50	>100 mg/l	algae	72 h
Reaction mass of 2,2'-[(4-methyl-phenyl)imino]bisethanol and Eth-anol 2-[[2-(2-hydroxyethoxy)ethyl](4-methyl-phenyl)amino]-		NOEC	100 mg/l	algae	72 h
2,2'-(m-tolylimino)diethanol	91-99-6	LC50	>68,6 mg/l	zebra fish (Danio rerio)	96 h
2,2'-(m-tolylimino)diethanol	91-99-6	EC50	107 mg/l	daphnia magna	48 h
2,2'-(m-tolylimino)diethanol	91-99-6	NOEC	<100 mg/l	algae	72 h
Maleic anhydride	108-31-6	LC50	75 mg/l	fish	96 h
Maleic anhydride	108-31-6	ErC50	74,35 mg/l	algae	72 h
Maleic anhydride	108-31-6	EC50	42,81 mg/l	daphnia magna	48 h
Maleic anhydride	108-31-6	NOEC	17,5 mg/l	daphnia magna	48 h
Maleic anhydride	108-31-6	LOEC	30,63 mg/l	daphnia magna	48 h

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Maleic anhydride	108-31-6	growth rate (ErCx) 10%	11,8 mg/l	algae	72 h
Maleic anhydride	108-31-6	growth (EbCx) 10%	11,8 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Styrene	100-42-5	EC50	1,88 mg/l	daphnia magna	21 d
Styrene	100-42-5	LC50	>3,84 mg/l	daphnia magna	21 d
Styrene	100-42-5	NOEC	1,01 mg/l	daphnia magna	21 d
Styrene	100-42-5	LOEC	2,06 mg/l	daphnia magna	21 d
Styrene	100-42-5	growth (EbCx) 10%	0,28 mg/l	algae	96 h
Hydrocarbons, C9, aromatics	64742-95-6	EC50	>99 mg/l	microorganisms	10 min
Hydrocarbons, C9, aromatics	64742-95-6	NOELR	1,228 mg/l	fish	28 d
Hydrocarbons, C9, aromatics	64742-95-6	NOEC	>99 mg/l	microorganisms	10 min
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		EC50	>1.000 mg/l	microorganisms	3 h
2,2'-(m-tolylimino)diethanol	91-99-6	EC50	2.170 mg/l	microorganisms	3 h
2,2'-(m-tolylimino)diethanol	91-99-6	NOEC	100 mg/l	algae	72 h
2,2'-(m-tolylimino)diethanol	91-99-6	growth (EbCx) 10%	817 mg/l	microorganisms	3 h
Maleic anhydride	108-31-6	EC50	77 mg/l	aquatic invertebrates	21 d
Maleic anhydride	108-31-6	NOEC	10 mg/l	aquatic invertebrates	21 d
Maleic anhydride	108-31-6	growth (EbCx) 10%	44,6 mg/l	microorganisms	18 h

12.2 Persistence and degradability

Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method
Styrene	100-42-5	oxygen depletion	100 %	14 d	
Hydrocarbons, C9, aromatics	64742-95-6	oxygen depletion	30,9 %	2 d	
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		carbon dioxide generation	1,5 %	29 d	
2,2'-(m-tolylimino)diethanol	91-99-6	oxygen depletion	-4 %	28 d	

Degradability of components					
Name of substance	**CAS No**	**Process**	**Degradation rate**	**Time**	**Method**
Maleic anhydride	108-31-6	carbon dioxide generation	>90 %	25 d	

12.3 Bioaccumulative potential

Bioaccumulative potential of components				
Name of substance	**CAS No**	**BCF**	**Log KOW**	**BOD5/COD**
Styrene	100-42-5	74	2,96 (25 °C)	
Hydrocarbons, C9, aromatics	64742-95-6	≥30,85 – ≤467	3,03 – 4,73 (20 °C)	
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-			2	
2,2'-(m-tolylimino)diethanol	91-99-6		1,9 (20 °C)	
Maleic anhydride	108-31-6		-2,61 (19,8 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

12.6 Endocrine disrupting properties

Contains an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

Endocrine disrupting chemicals (EDC)				
Name of substance	**CAS No**	**Human health category**	**Wildlife category**	**Reference decision**
Styrene	100-42-5	CAT1	CAT3	EM 1999

Legend

CAT1	Category 1 - evidence of endocrine disruption in at least one species using intact animals
CAT3	Category 3 - no evidence of endocrine disruption or no data available

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes, Decision 2000/532/EC on the list of waste

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

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 3269
IMDG-Code	UN 3269
ICAO-TI	UN 3269

14.2 UN proper shipping name

ADR/RID/ADN	POLYESTER RESIN KIT liquid base material
IMDG-Code	POLYESTER RESIN KIT liquid base material
ICAO-TI	Polyester resin kit liquid base material

14.3 Transport hazard class(es)

ADR/RID/ADN	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Classification code	F1
Danger label(s)	3

Special provisions (SP)	236, 340

Excepted quantities (EQ)	siehe SV 340
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	E

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	-
Danger label(s)	3

Special provisions (SP)	236, 340
Excepted quantities (EQ)	-> SP340
Limited quantities (LQ)	5 L
EmS	F-E, S-D
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Danger label(s)	3

Special provisions (SP)	A66, A163
Excepted quantities (EQ)	E0
Limited quantities (LQ)	5 kg

SECTION 15: Regulatory information

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

This Safety Data Sheet is purely informative and does comply with EU regulations, but not with country-specific regulations.

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	Restriction	No
Polyester putty - alu	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
aluminium powder (stabilised)	flammable / pyrophoric	R40	40
aluminium powder (stabilised)	substances in tattoo inks and permanent make-up	R75	75
Styrene	flammable / pyrophoric	R40	40
Styrene	substances in tattoo inks and permanent make-up	R75	75
Hydrocarbons, C9, aromatics	flammable / pyrophoric	R40	40
Hydrocarbons, C9, aromatics	substances in tattoo inks and permanent make-up	R75	75

Name	Name acc. to inventory	Restriction	No
Maleic anhydride	substances in tattoo inks and permanent make-up	R75	75

Legend

R3 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
— can be used as fuel in decorative oil lamps for supply to the general public, and
— present an aspiration hazard and are labelled with H304.
4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: “Keep lamps filled with this liquid out of the reach of children”; and, by 1 December 2010, “Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage”;
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: ‘Just a sip of grill lighter fluid may lead to life threatening lung damage’;
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.’;

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- ‘whoopee’ cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
‘For professional users only’.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

R75 1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
(b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
(i) 0,1 % by weight, if the substance is used solely as a pH regulator;
(ii) 0,01 % by weight, in all other cases;
(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
(i) “Rinse-off products”;
(ii) “Not to be used in products applied on mucous membranes”;
(iii) “Not to be used in eye products”;
(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture “for tattooing purposes” means injection or introduction of the mixture into a person’s skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up,

Legend

cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
(a) the statement “Mixture for use in tattoos or permanent make-up”;
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. “Ingredient” means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement “pH regulator” for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.
The information shall be clearly visible, easily legible and marked in a way that is indelible.
The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.
Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.
Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
8. Mixtures that do not contain the statement “Mixture for use in tattoos or permanent make-up” shall not be used for tattooing purposes.
9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).
10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

2012/18/EU (Seveso III)				
No	**Dangerous substance/hazard categories**	**Qualifying quantity (tonnes) for the application of lower and upper-tier requirements**		**Notes**
P5c	flammable liquids (cat. 2, 3)	5.000	50.000	51)

Notation

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content	2,75 %

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
aluminium powder (stabilised)	Metals and their compounds		a)	
Styrene	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	

Legend

a) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

Explosives precursors which are subject to restrictions

Name acc. to inventory	CAS No	Type of registration	Remarks	Limit value	Upper limit value for the purpose of licensing under Article 5(3)
aluminium	7429-90-5	Annex II	powd d < 200 µm > 70%		

Legend

> 70%	As a substance or in mixtures containing 70 % or more, by weight, of aluminium and/or magnesium.
Annex II	Substances on their own or in mixtures or in substances for which suspicious transactions shall be reported
d < 200 µm	With a particle size less than 200 µm.
powd	Powder

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

Restrictions of occupation

Directive 94/33/EC on the protection of young people at work / Observe national regulations on protection of young people at work.
Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding / Observe national regulations on maternity protection.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.1		Article number: GAP 50
1.3	Details of the supplier of the safety data sheet: Chemicar Europe NV Baarbeek 2 2070 Zwijndrecht Belgium Telephone: +32 3 234 87 80 e-mail: msds@emm.com Website: www.finixa.com	Details of the supplier of the safety data sheet: Chemicar Europe NV Keetberglaan 1D Haven 1087 9120 Melsele Belgium Telephone: +32 3 234 87 80 e-mail: msds@emm.com Website: www.finixa.com
3.2		Mixtures: change in the listing (table)
5.3	Special protective equipment for firefighters: Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.	Special protective equipment for firefighters: Self-contained breathing apparatus (EN 137). Standard protective clothing for firefighters.
7.1	Specific notes/details: Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.	Specific notes/details: Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air.
7.2	- packaging compatibilities: Keep only in original container.	- packaging compatibilities: Only packagings which are approved (e.g. acc. to ADR) may be used.
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.2	Eye/face protection: eye protection must be worn Use safety goggle with side protection (EN 166).	Eye/face protection: eye protection must be worn Use safety goggle with side protection (EN ISO 16321).
8.2	Skin protection: wear protective clothing Chemical protective clothing. Protective clothing (EN 340 & EN ISO 13688).	Skin protection: wear protective clothing Protective clothing (EN ISO 13688).
11.1		Acute toxicity of components: change in the listing (table)
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)
12.2		Degradability of components: change in the listing (table)
12.3		Bioaccumulative potential of components: change in the listing (table)
13.1		Relevant provisions relating to waste
13.1		List of wastes, Decision 2000/532/EC on the list of waste
13.1		- product: change in the listing (table)

Section	Former entry (text/value)	Actual entry (text/value)
15.1		Restrictions of occupation: Directive 94/33/EC on the protection of young people at work / Observe national regulations on protection of young people at work. Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding / Observe national regulations on maternity protection.

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid

Abbr.	Descriptions of used abbreviations
Flam. Sol.	Flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
Resp. Sens.	Respiratory sensitisation
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
Water-react.	Material which, in contact with water, emits flammable gases

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
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.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (hearing organs) through prolonged or repeated exposure.
H373	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.