

SAFETY DATA SHEET

According to regulation according to Regulation (EC) No. 1907/2006



SOUPLETHANE 5/6 PUTTY – POLYOL

Version English version : 23.11.2020
1.0

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

1.1 Product identifier

Trade name : SOUPLETHANE 5/6 PUTTY - POLYOL
Index No : Not applied
CE No : Not applied
CAS No : Not applied
REACH Registration No : The product is a mixture, no need to be REACH registered.
Product description :
Composition: mixture
Origin: organic, polyol

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

Use of the substance/mixture : Component of a Polyurethane System.
Professional use only.

1.3 Details of the supplier of the safety data sheet

Company : KEMICA COATINGS
Address : Z.A. DU BOIS GUESLIN
28630 MIGNIERES
FRANCE
Telephone : +33 (0)2 37 26 39 87
+33 (0)2 37 26 33 56
E-mail address of the : info@kemica-coatings.com
person responsible for SDS

1.4 Emergency telephone number

France : ORFILA
Telephone : +33 (0)1 45 42 59 59

Supplier

Tel : +33 2 37 26 33 56 (CET : 8h30am – 12h, 13h30 – 17h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Composition : mixture

Classification (REGULATION (EC) No 1272/2008)

Carc. 1B, H350
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

See section 16 for the full text of the H-statements declared above.

For more details on health consequences and symptoms, see section 11.

2.2 Label elements

Hazard pictograms :

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Danger

Hazard statements :

H350 May cause cancer
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long-lasting effects

Precautionary statements :

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P281 Use individual protection equipment.
P302 + P352 IF ON SKIN: Wash with plenty of water/soap.
P308+P313 If exposed: Call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Other hazards

No Information.

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components concerning CLP Regulation and relative classification :

Name	CAS No. CE No. Index No.	REACH registration No.	% [mass]	classification [C&L-CLP]
Polyamines based on benzoic acid, 3,3 - methylene bis (6 Amino, dimethyl ester)	31383-81-0 250-606-6 N.A.	N.A.	1.7-3.2	Skin Corr. 2 (H315) STOT SE 3 (H335)
4,4'-methylenebis(2-chloroaniline)	101-14-4 202-918-9 612-078-00-9	01-2119488993-16	1.2-2	Acute Tox. 4 (H302) Carc. 1 B (H350) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
4,4'-methylenedianiline	101-77-9 202-974-4 612-051-00-1	N.A.	0.4-0.8	Acute Tox. 3 (H301) Skin Sens. 1 (H317) Muta 2 (H341) Carc. 1 B (H350) STOT SE 1 (H370) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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General advice:

The wet and contaminated clothes and shoes need to be removed immediately.

4.1.1. If inhaled:

If breathed in, move person into fresh air. Call a physician or poison control center immediately. Keep patient warm and at rest. Keep respiratory tract clear. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice.

4.1.2. In case of skin contact:

After skin contact, wash immediately with plenty of warm soapy water: Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing, or wear gloves. Wash clothing before reuse.

4.1.3. In case of eye contact:

Eyes should be washed with plenty of water for several minutes. It is necessary to consult an ophthalmologist in the immediate future if an irritation occurs.

4.1.4. If swallowed:

Do not induce vomiting. You must consult a doctor/physician. Never give anything by mouth to an unconscious person. Rinse your mouth with water when the injured person regains consciousness.

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

Harmful if swallowed. May cause sensitization by skin contact.

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

A periodic medical examination is recommended, depending on the size of the exposure.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Foam
Carbon dioxide (CO₂)
Dry powder
In case of important fire, a water-jet can also be used (fog).

Unsuitable extinguishing media : Not available

5.2 Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe gases or decomposition smokes. Heated to temperatures above 200°C, the product can decompose with emission of toxic fumes of nitrogen oxide or hydrogen chloride among others.

5.3 Advice for firefighters

Compulsory use of a self-contained respirator and a combination of protection. Do not allow extinguishing contaminated water to enter in soil, surface water or groundwater.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation. Keep away people that are not involved. Avoid contact with skin and eyes.

6.2 Environmental precautions

Do NOT discharge in sewers. Do not allow this chemical to enter the environment.

Do not contaminate surface water.

Contain spilled material by damming or using absorbent materials to prevent flow in sewers or waterflows. The evacuation of the contaminated soil may be necessary. Do not discharge in sewers or in the environment, dispose of this product in an accredited center of the waste collection.

6.3 Methods and material for containment and cleaning up

Contain the leak or spill if it can be done safely. Clean small spreads with a pump or vacuum and then finish with a dry chemical absorbent.

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6.3 Reference to other sections

See section 8 and 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

If an annex is attached to this SDS (safety data sheet) in accordance with REACH Regulation (EU) No 1907/2006, the general conditions of use are indicated in the corresponding exposure scenarios.

Ensure adequate ventilation, if necessary with air suction, when handling and transferring the product.

The personal protection measures in section 8 must be observed. Avoid contact with skin and eyes.

Keep away from food. Wash hands at each break / stop; apply a cream protecting the skin. Separately store work clothes. Change soiled or wet clothes immediately.

7.2 Conditions for safe storage, including any incompatibilities

Store under an inert gas. Store tightly closed containers in a cool, well-ventilated place, protected from moisture.

7.3 Specific end use(s)

Not applicable.

SECTION 8: Exposure controls / personal protection

If an annex is attached to this SDS according to Regulation (EU) No 1907/2006, the general risk management measures are indicated in the corresponding exposure scenarios.

8.1 Control parameters

Exposure limits:

4,4'-methylenebis [2-chloroaniline] VME: 0.02ppm

4,4'-methylenedianiline ACGIH TLV(TWA): 0.1 ppm (skin)

DNEL / DMEL & PNEC Values

3,3 - methylene bis (6 Amino, dimethyl ester)

N / A.

4,4'-methylenebis (2-chloroaniline)

N / A.

4,4'-methylenedianiline

Workers:

Long-term exposure - systemic effects (inhalation): DMEL = 0.0148 mg/m³

Long-term exposure - systemic effects (dermal): DMEL = 0.0042 mg/kg bw/day

General population: Not applicable.

PNEC aqua (freshwater): 0.0001 mg/L

PNEC aqua (marine water): 0.00001 mg/L

PNEC aqua (intermittent releases): 0.0247 mg/L

PNEC STP: 10 mg/L

PNEC sediment (freshwater): 0.375 mg/kg sediment dw

PNEC sediment (marine water): 0.0375 mg/kg sediment dw

PNEC soil: 1.12 mg/kg soil dw (dry weight)

PNEC oral: 270 mg/kg food

8.2 Exposure controls

Respiratory protection

Respirator approved for supply of air when exposed to vapors emanating from heated materials. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Materials suitable for protective gloves; EN 374:

glove made of multilayer material - PE / EVAL / PE; breaking time > = 480 min.

Recommendation: Remove contaminated gloves.

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Eye protection

Wear eye / face protection (splash goggles or face shield / safety glasses).

Skin and body protection

Wear appropriate protective clothing such as polyethylene Tyvek or equivalent for protection against splashing.

SECTION 9: Physical and chemical properties

9.1 Information on essential physical and chemical properties

Form:	liquid
Colour:	cream
Odour:	No odour
Odour threshold:	NA
pH:	NA
Melting point (°C):	NA
Boiling point (°C):	NA
Flash point:	>200°C
Evaporation rate:	NA
Flammability:	NA
Explosibility limit:	NA
Vapour pressure:	NA
Vapour density:	NA
Relative density:	~1,3 g/cm ³ at 20 °C
Solubility in water:	Not soluble at 15 °C
Surface tension:	NA
Auto-ignition temperature:	NA
Ignition temperature:	NA
Decomposition temperature:	NA
explosive properties:	NA
Dust Explosion Class:	NA
Oxidising properties:	NA

9.2 Other information

The indicated values do not correspond in all cases to the product specification. Specification data can be found in the technical manual.

SECTION 10: Stability and reactivity

10.1 Reactivity

This information is not available.

10.2 Chemical stability

This information is not available.

10.3 Possibility of hazardous reactions

The product may react with strong oxidants, ammonia and some alkali metals such as magnesium, zinc or potassium

10.4 Conditions to avoid

Preserve away from moisture.

10.5 Incompatible materials

The product may react with strong oxidants, ammonia and some alkali metals such as magnesium, zinc or potassium

10.6 Hazardous decomposition products

No hazardous decomposition products, as long as the storage and handling requirements are met.

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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

3,3 - methylene bis (6 Amino, dimethyl ester)

N.A.

4,4'-methylenebis(2-chloroaniline)

This substance is absorbed by inhalation and through the skin. It is metabolized by several metabolic pathways, mainly in the liver. Some of its metabolites can bind covalently to macromolecules (DNA, proteins). After distribution throughout the body, the majority of the substance is eliminated in a few days via urine and feces (source INRS)

LD50 oral (rat) = 1140mg/kg

LD50 subcutaneous (rat) = > 5mg/kg

Inhalation	Blue lips or finger nails. Blue skin. Confusion. Convulsions. Dizziness. Headache. Nausea. Unconsciousness.
Eye contact	NA
Skin contact	May cause cyanosis by dermal absorption
Ingestion	Harmful by ingestion
Sensitization	NA
Carcinogenicity	May cause cancer
Mutagenicity	Positive germ cell mutagenicity
Reproductive toxicity	NA
STOT - single exposure	NA
STOT - repeated exposure	NA
Aspiration toxicity	NA

Acute Toxicity: LD50 Oral, Intraperitoneal Rat – 193 mg/Kg

LD50 Oral, Mouse – 264 mg/Kg

LD50 Oral, Rat – 517 mg/Kg

LD50 Oral, Guinea pig – 260 mg/Kg

LD50 Oral, Rabbit – 620 mg/Kg

LD50 Skin, Rabbit – 200 mg/Kg

LDLO Oral, Dog – 300 mg/Kg

Skin Corrosion/Irritation: Not available

Serious Eye Damage/Irritation: Eye, Rabbit – 100mg/24 Hrs, Moderate

Respiratory or Skin Sensitization: Not available

Germ Cell Mutagenicity: DNA Damage, Intraperitoneal Rat - 370 µmol/Kg

Mutation in microorganisms, Salmonella

Typhimurium – 1nmol/plate/20 min.

4,4'-méthylènedianiline

In both animals and humans, 4,4'-diaminodiphenylmethane is absorbed by inhalation, by ingestion and through the skin; it is widely distributed, processed in the liver and excreted primarily in the urine as processed and / or conjugated. The dosage of 4,4'-diaminodiphenylmethane (total or after hydrolysis) in the urine at the end of the work shift can be useful for the biological monitoring of exposure (source INRS).

LD50 oral (rat) = 444 mg/kg bw (14 jours) Méthode: OECD Guideline 401

LC50 inhalation (rat) > 0.46 mg/L air (6 h)

LD50 subcutaneous (rat) = 2080 mg/kg bw (24 h)(50 % DMSO solution)

LD50 > 2500 mg/kg bw (24 h)(50 % aqueous solution)

Acute Toxicity: LD50 Oral, Intraperitoneal Rat – 193 mg/Kg

LD50 Oral, Mouse – 264 mg/Kg

LD50 Oral, Rat – 517 mg/Kg

LD50 Oral, Guinea pig – 260 mg/Kg

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LD50 Oral, Rabbit – 620 mg/Kg
LD50 Skin, Rabbit – 200 mg/Kg
LDLO Oral, Dog – 300 mg/Kg

Skin Corrosion/Irritation: Not available

Serious Eye Damage/Irritation: Eye, Rabbit – 100mg/24 Hrs, Moderate

Respiratory or Skin Sensitization: Not available

Germ Cell Mutagenicity: DNA Damage, Intraperitoneal Rat - 370 μ mol/Kg
Mutation in microorganisms, Salmonella
Typhimurium – 1nmol/plate/20 min.

Carcinogenicity Oral, Rat – 320 mg/Kg

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria
Liver: Tumors
Kidney, Ureter, and Bladder: Kidney tumors
Subcutaneous, Rat – 1,410 mg/Kg

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria
Liver: Tumors
IARC: Group 2B (Possibly carcinogenic to humans) .
NTP: B (Reasonably anticipated to be carcinogens).

Reproductive toxicity: Not available.

Specific Target Organ Toxicity - Single Exposure (GHS) : Cat. 2: Liver, Kidney, Blood, Spleen
Specific Target Organ Toxicity - Repeated Exposure (GHS) : Cat. 2: Liver, Kidney, Blood, Spleen

Aspiration Hazard : Not available
RTECS Number: BY5425000

SECTION 12: Ecological Information

Prevent product from reaching surface water and wastewater; do not pour on the floor.

Studies carried out on the components:

3,3 - methylene bis (6 Amino, dimethyl ester) : NA

4,4'-methylenebis (2-chloroaniline)

4,4'-methylenedianiline

12.1 Toxicity

4,4'-methylenebis(2-chloroaniline)

LC50 fish 96h = 0.606 mg/l

EC50 daphnia 48h = 0.916 mg/l

EC50 algae 72h > 1.89 mg/l

4,4'-methylenedianiline

Fish: 48Hrs LC50: 32 ppm (Oryzias latipes)

96Hrs LC50: 21 mg/L (Oryzias latipes)

Crustacea: 48Hrs EC50: 2.5 mg/L (Daphnia magna)

Algae: 72Hrs EC50: 5.3 mg/L (Selenastrum capricornutum)

12.2 Persistence and degradability

4,4'-methylenebis(2-chloroaniline)

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EC50 algae 72h > 1.89 mg/l

Not easily biodegradable

4,4'-methylenedianiline

0% by BOD, 5% by HPLC, 0% (by TOC)

12.3 Bioaccumulative potential

4,4'-methylenebis(2-chloroaniline)

No indication of bioaccumulation potential

4,4'-methylenedianiline

3.0 - 14 (conc. 200 ppb), 3.1 - 15 (conc. 20 ppb)

12.4 Mobility in soil

4,4'-methylenebis(2-chloroaniline)

NA

4,4'-methylenedianiline

NA

12.5 Results of PBT and vPvB assessment

4,4'-methylenebis(2-chloroaniline)

No vPvB

4,4'-methylenedianiline

No vPvB

12.6 Other adverse effects

4,4'-methylenebis(2-chloroaniline)

NA

4,4'-methylenedianiline

Class 3 - Highly water polluting substance

SECTION 13: Disposal considerations

Elimination must be carried out in compliance with all decrees, statutes and laws in force at the local, national and international levels. For disposal within the EU, use the waste code in force, according to the European Waste Catalog (EWC).

13.1 Waste treatment methods

After complete emptying (no drainage or dripping, troweling) empty packaging may be offered for recycling, according to the specification in force for packaging, at the receiving stations of the chemical industry's return systems. Recycling must comply with national legislation and regulations concerning the protection of the environment.

Do not throw away on wastewater.

SECTION 14: Transport information

REGULATED

MARITIME yes

ROAD / RAIL yes

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Air yes

MARITIME

IMO Class 9

Packing Group III

UN No. 3082

IMO Labeling / Marking 9 + Marking Marine Pollutant

Shipping Name Environmentally Hazardous Substances, Liquid, n.s.a (Contains 4,4'-methylenebis (2-chloroaniline))

EmS F-A, S-F

Annex - Marpol II Undetermined

Appendix Marpol - III Marine Pollutant

Transport description UN 3082 Environmentally Hazardous Substances, liquid, n.s.a. (Contains 4,4'-Methylenebis (2-chloroaniline) and 4,4'-methylenedianiline, 9, III, Marine Pollutant

ROAD / RAILWAY

ADR / RID Class 9

Classification code M6

Packing Group III

UN No. 3082

Hazard identification number 90

ADR / RID Labels / Marking 9 + 'Dangerous for the environment' marking

Shipping Name Environmentally Hazardous Substances, Liquid, n.s.a (Contains 4,4'-methylenebis (2-chloroaniline)

Transport description UN 3082 Environmentally Hazardous Substances, liquid, n.s. (Contains 4,4'-methylenebis (2-chloroaniline), 9, III, (E)

Air

IATA / ICAO Class 9

Packing Group III

UN No. 3082

IATA / ICAO Labeling / Marking 9 + Marking 'Environmentally hazardous material'

Shipping Name Environmentally Hazardous Substances, Liquid, n.s.a (Contains 4,4'-methylenebis (2-chloroaniline) and 4,4'-methylenedianiline

UN No. 3082 Environmentally Hazardous Substances, liquid, n.s.a (Contains 4,4'-methylenebis (2-chloroaniline) and 4,4'-methylenedianiline, 9, III,

Empty Packaging / Transport Equipment

ROAD / RAILWAY (ADR / RID)

Empty packaging, tank, mobile tank, tank tanker, tanker truck, ..., uncleaned residues of the last material contained in: UN 3082 Environmental Hazardous Substances, Liquid, n.s.a (contains 4,4'-methylenebis (2-chloroaniline) and 4,4'-methylenedianiline, 9, III, (E)

MARITIME (IMO / IMDG)

Empty packaging, tank, mobile tank, tank tanker, tanker truck, ..., uncleaned residues of the last material contained in: UN 3082 Environmental Hazardous Substances, Liquid, n.s.a (contains 4,4'-Methylenebis (2-chloroaniline) and 4,4'-methylenedianiline, 9, III, Marine Pollutant

SECTION 15: Regulatory information

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

European Union: REACH (according to Regulation (EC) 1907/2006)

15.2 Chemical Safety Assessment

A chemical safety assessment was conducted for:

4,4'-methylenebis (2-chloroaniline)

4,4'-methylenedianiline

SECTION 16: Other information

Full text of hazard statements (H) and precautionary statements mentioned in sections 2, 3 and 10 of the CLP classification (1272/2008 / EC).

Hazard statements :

H350 May cause cancer

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long-lasting effects

Precautionary statements :

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P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P281 Use individual protection equipment.
P302 + P352 IF ON SKIN: Wash with plenty of water/soap.
P308+P313 If exposed: Call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or a rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

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Advice for the reader

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

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