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Mouldlife

MOULDING • CASTING • PROTOTYPING • SFX

Safety Data Sheet

Ad-Sil 20 PART A

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

1.1 Product identifier

Product Name: Ad-Sil 20 PART A

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended restrictions on use: Industrial and professional use. Addition silicone for mold making.

1.3 Supplier:

Mouldlife Limited,
Unit D + E, Anglian Lane, Bury St Edmunds
IP32 6SR, Suffolk
Telephone: +44 (0) 1638 750 679

1.4 Emergency Telephone Number: +44 (0) 1638 750 679

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects: No other hazards

2.2. Label elements

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Special Provisions: EUH210 Safety data sheet available on request.

Special provisions according to Annex XVII of REACH and subsequent amendments: None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$.

Other Hazards: No other hazards

Section 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Mixture identification: Ad-Sil 20 PART A

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number	Material Properties
20-25 %	silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide	CAS:68909-20-6 EC:272-697-1 Index:014-052-00-7	STOT RE 2, H373, EUH066		
7-10 %	Cristobalite	CAS:14464-46-1 EC:238-455-4	STOT RE 1, H372		
< 0.1%	octamethylcyclotetrasiloxane; [D4]	CAS:556-67-2 EC:209-136-7 Index:014-018-00-1	Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Chronic 1, H410, M-Chronic:10		PBT, vPvB

Section 4: First aid measures

4.1. Description of first aid measures

In case of skin contact: Wash with plenty of water and soap.

In case of eyes contact: Wash immediately with water.

In case of Ingestion: Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation: Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

N.A.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water. Carbon dioxide.

Extinguishing media which must not be used for safety reasons: None.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases. Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures: Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.

For emergency responders

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand. Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

Section 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists. See also section 8 for recommended protective equipment.

Advice on general occupational hygiene: Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: None.

Instructions as regards storage premises: Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

Industrial sector specific solutions: None in particular

Section 8: Exposure controls

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Cristobalite

CAS: 14464-46-1	ACGIH	Long Term: 0.025 mg/m ³ Notes: (R), A2 - Pulm fibrosis, lung cancer
		Long Term: 0.025 mg/m ³ Notes: (R), A2 - Pulm fibrosis, lung cancer
	EU	Long Term: 0.1 mg/m ³ Notes: Respirable
	TLV	Long Term: 0.1 mg/m ³ Notes: Respirable

octamethylcyclotetrasiloxane; [D4]

CAS: 556-67-2	TWA	Long Term: 120 mg/m ³ - 10 ppm
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8.2. Exposure controls

Eye protection: Not needed for normal use. Anyway, operate according to good working practices.

Protection for skin: No special precaution must be adopted for normal use.

Protection for hands: Not needed for normal use.

Respiratory protection: N.A.

Thermal Hazards: N.A.

Environmental exposure controls: N.A.

Hygienic and Technical measures N.A.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour:	blue
Odour:	odourless
Odour threshold:	Not Relevant
pH:	Not Relevant
Kinematic viscosity:	N.A.
Melting point/freezing point:	N.A.
Boiling point or initial boiling point and boiling range:	N.A.
Flash point:	> 93°C >135 Method: EN ISO 3679
Lower and upper explosion limit:	N.A.
Relative vapour density:	N.A.
Vapour pressure:	N.A.
Density and/or relative density:	1.13 g/cm ³
Solubility in water:	Insoluble
Solubility in oil:	N.A.
Partition coefficient n-octanol/water (log value):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Flammability:	N.A.
Volatile Organic compounds - VOCs =	N.A.
Particle characteristics:	
Particle size:	N.A.

9.2. Other information

Viscosity: 4,980.00 cP
Method: Brookfield (SC4-29; 23°C)

No other relevant information

Section 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Avoid moisture and high temperature.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

Section 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified

c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

octamethylcyclotetrasiloxane; [D4]

CAS: 556-67-2 g) reproductive toxicity No Observed Adverse Effect Level 3.64 mg/l

11.2. Information on other hazards

Endocrine disrupting properties: No endocrine disruptor substances present in concentration $\geq$ 0.1%

Section 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

octamethylcyclotetrasiloxane; [D4]

CAS: 556-67-2

- a) Aquatic acute toxicity: Algae > 0.0022 mg/L 96h
- a) Aquatic acute toxicity: ErC10 Algae > 0.0022 mg/L 96h
- a) Aquatic acute toxicity: EC50 Fish > 10000 mg/L 3h
- a) Aquatic acute toxicity: EC50 Daphnia > 0.015 mg/L 48h
- b) Aquatic chronic toxicity: NOEC Fish > 0.0044 mg/L 93d
- b) Aquatic chronic toxicity: NOEC Daphnia > 0.015 mg/L 21d

12.2. Persistence and degradability

Cristobalite

CAS: 14464-46-1 Non-readily biodegradable

octamethylcyclotetrasiloxane; [D4]

CAS: 556-67-2 Non-readily biodegradable Notes: MSDS supplier

12.3. Bioaccumulative potential

Cristobalite

CAS: 14464-46-1 Not bioaccumulative

octamethylcyclotetrasiloxane; [D4]

CAS: 556-67-2 Not bioaccumulative Test: BCF – Bioconcentration factor; Value: 14900 Notes: (Log Pow, ECHA dossier)

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

List of Eco-Toxicological properties of the components

octamethylcyclotetrasiloxane; [D4]

CAS: 556-67-2 $< 0.1\%$ PBT – vPvB

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

N.A.

Section 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Section 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N.A.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

ADR-Class: NA

IATA-Class: NA

IMDG-Class: NA

14.4. Packing group

N.A.

14.5. Environmental hazards

N.A.

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID): N.A.

Air (IATA): N.A.

Sea (IMDG): N.A.

14.7. Maritime transport in bulk according to IMO instruments

N.A.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Section 15: Regulatory information

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

EU-Regulations

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2020/878

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: None.

Provisions related to directive EU 2012/18 (Seveso III): None

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

Component	Ident. Numb.	Quantity	Material Properties
octamethylcyclotetrasiloxane; [D4]	CAS: 556-67-2 EINECS: 209-136-7 Index: 014-018-00-1	< 0.1%	SVHC - PBT - vPvB

15.2. Chemical safety assessment

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

Section 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H226	Flammable liquid and vapour.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.
H410	Very toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources: ECDIN – Environmental Chemicals Data and Information Network – Joint Research Centre, Commission of the European Communities SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS – Eight Edition – Van Nostrand Reinold The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release. Legend to abbreviations and acronyms used in the safety data sheet: ACGIH: American Conference of Governmental Industrial Hygienists ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ATE: Acute Toxicity Estimate ATEmix: Acute toxicity Estimate (Mixtures) BCF: Biological Concentration Factor BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand CAS: Chemical Abstracts Service (division of the American Chemical Society). CAV: Poison Center CLP: Classification, Labeling, Packaging. CMR: Carcinogenic, Mutagenic and Reprotoxic COD: Chemical Oxygen Demand COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information