SAFETY DATA SHEET

Microse

Microset 101 Silicone Polymer Compound Part B

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is provided voluntarily and is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

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

1.1 **Product identifier**

> Product name: Microset 101 Silicone Polymer Compound Part B

MICROSET 101 BLACK, MICROSET 101 GREY Synonyms, Trade Names:

Including: "MICROSET 101SS", "MICROSET 101FF",

"MICROSET 101TH" "MICROSET 101TH(s)", "MICROSET 101RF", "MICROSET 101RT" "MICROSET 101XF", "MICROSET 101XFT", "MICROSET 101FS" "MICROSET 101XF SLOW", "MICROSET 101XFT SLOW" "MICROSET 101XF30", "MICROSET WHITE"

"MICROSET 101FFS"

1.2 Relevant identified uses of the substance or mixture and uses advised against Moulding of metal surfaces. No known uses advised against.

1.3 Details of the supplier of the safety data sheet Australian Distributor Information:

Microset Products Ltd.

Unit 1 Marina Court, Tungsten Park,

Maple Drive,

Hinckley, Leicestershire,

LE10 3BF, UK

Phone: +44 (0)1455 634508 Fax: +44(0) 1455 613287

Email: info@microset.co.uk

Russell Fraser Sales Ptv Ltd

7/38 Waratah Street Kirrawee, NSW 2232

02 9545 4433 rfs@rfsales.com.au rfsales.com.au

Emergency Only Contact Australia: 000

1.4 **Emergency telephone number**

In case of emergency Tel. +44 (0)1455 634508 (8.30am to 5.30pm, Monday to Friday)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Not classified as hazardous according to the CLP Regulation (EC) No 1272/2008

2.2 Label elements

No label required.

2.3 Other hazards

Physical hazards: Not classified as flammable, but will burn if involved in a fire.

Health hazards: No specific symptoms noted by any route of exposure. **Environmental hazards:** Not classified as hazardous to the environment. Contains octamethylcyclotetrasiloxane (PBT), decamethylcyclopentasiloxane (vPvB) and dodecamethylcyclohexasiloxane (vPvB). Contains no substances known to have endocrine disrupting properties.

SECTION 3: Composition

3.1 Substances

Not applicable, the product is a mixture.

3.2 Mixtures

MICROSET products are formulated as mixtures of the following components:

Name	CAS/EC/Registration Nos	Concentration % w/w	Classification
Octamethylcyclotetrasiloxane (D4)	556-67-2 209-136-7 01-2119529238-36-XXXX	≤ 1%	Flam. Liq. 3 H226 Repr. 2 H361f Aquatic Chronic 4 H413 PBT vPvB
Decamethylcyclopentasiloxane (D5)	541-02-6 208-764-9 01-2119511367-43-XXXX	≤ 1%	vPvB
Dodecamethylcyclohexasiloxane (D6)	540-97-6 208-762-8 01-2119517435-42-XXXX	≤ 1%	vPvB
Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes	68478-92-2 270-844-4 01-2120224513-67-XXXX	≤ 1%	Flam. Liq. 2 H225 Repr. 2 H361d

See section 16 for full text of H statements

SECTION 4: First Aid Measures

4.1 Description of first aid measures

EYE CONTACT: Wash thoroughly with water and obtain medical attention if signs of discomfort.

INHALATION: Remove from exposure. If breathing becomes difficult call a doctor.

SKIN CONTACT: Wash off with soap and water. Seek medical attention.

INGESTION: If swallowed, rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

No specific symptoms identified

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire. Alkaline powders.

5.2 Special hazards arising from the substance or mixture

Will burn if involved in a fire. Use water spray to cool containers. Polymerisation of components may occur at elevated temperatures, resulting in potential bursting of sealed containers. Keep containers cool. Fires involving large numbers of cartridges may evolve irritating fumes. Prevent run-off from fire from entering water courses and sewers.

5.3 Advice for fire fighters

Self-contained breathing apparatus and thermal protective clothing must be worn in case of fire

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove ignition sources. Wear suitable protective clothing including gloves and eye protection to avoid unnecessary skin or eye contact. Spillages may be slippery.

6.2 Environmental precautions

Prevent entry into sewers and watercourses. If large quantities of product enters sewers or watercourses, inform the appropriate environmental authorities.

6.3 Methods and materials for containment and clearing up

Small spills: Wipe up with paper towels and place in a suitable container for disposal. Wash the spill area with detergent and water.

Large spills: Mix spillage with a suitable non-combustible absorbent, e.g. sand or earth, and scrape up and place in a suitable container for disposal. Do not use absorbents that are basic (alkaline). Wash the spill area with detergent and water.

Containers with collected spillage must be properly labelled with correct contents.

6.4 References to other sections

See section 8 for further advice on PPE and section 13 for further advice on disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use in well ventilated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Store in closed original container.

7.3 Specific end uses(s)

No specific industry guidelines available.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters

None identified.

8.2 Exposure controls

Engineering controls

Not normally required. If sprays, mists, etc are likely to be formed use local exhaust ventilation to minimise exposure.

Respiratory protection

Not normally required.

Hand Protection

Under normal usage the MICROSET application system will allow the material to be dispensed safely and cleanly to the appropriate location without the need for protective gloves or goggles, however, these may be worn as a precaution especially in confined or difficult working conditions. Gloves made of Nitrile, Polyvinyl chloride (PVC), Rubber or plastic may be suitable, but manufacturer recommendations should

always be consulted. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection

Not normally required, but if contact with eyes is likely wear suitable eye protection to protect from splashes, meeting the requirements of BS EN166 3, when handling this product.

Skin protection

Aprons or coveralls are recommended. These should be changed after use or if contaminated. Wash before re-use.

Environmental Exposure Controls

Take suitable measures to prevent entry into drains, sewers and watercourses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a)	Physical state	viscous liquid	
b)	Colour	translucent	
c)	Odour	Slight	
d)	Melting point/freezing point	Not available	
e)	Boiling point or initial boiling	Not available	
	point and boiling range		
f)	Flammability	Not applicable	
g)	Lower and upper explosion limit	Not available	
h)	Flash point	> 150 °C (Closed cup according to method Afnor T 60103.)	
i)	Auto-ignition temperature	400°C	
j)	Decomposition temperature	> 200°C	
k)	рН	Not applicable	
I)	Kinematic viscosity	18 000 mm ² /s (25 °C)	
m)	Solubility	Water: Practically insoluble	
		Acetone: Practically Insoluble, Alcohol: Practically Insoluble,	
		Diethylether.: Dispersible, Aliphatic hydrocarbons.: Dispersible,	
		Aromatic hydrocarbons.: Dispersible, Chlorinated solvents.:	
		Dispersible	
n)	Partition coefficient n-	Not available	
	octanol/water (log value)		
0)	Vapour pressure	Not available	
p)	Density and/or relative density	Approximately 1.12 (20 °C)	
q)	Relative vapour density	Not available	
r)	Particle characteristics	Not applicable	

9.2 Other information

None available

SECTION 10: Stability and Reactivity

10.1 Reactivity

Not considered to be a reactive material

10.2 Chemical stability

Stable under normal conditions of use and storage

10.3 Possibility of hazardous reactions

During Storage, This product may generate hydrogen gas. Quantity of hydrogen potentially released (I/kg of product): < 4

10.4 Conditions to avoid

None noted.

10.5 Incompatible materials

Strong oxidizing agents. Alkalis and caustic products. Chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.

10.6 Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Amorphous silica.

SECTION 11: Toxicological Information

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

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

	T	
(a) acute toxicity	based on available data, the classification criteria are not met	
	Octamethylcyclotetrasiloxane:	
	LC 50 (Rat, 4 h): > 36 mg/l	
	20 00 (Nat, 411). 7 00 mg/l	
	Decamethylcyclopentasiloxane	
	LC 50 (Rat): 8,67 mg/l	
(b) skin corrosion/irritation	based on available data, the classification criteria are not met	
(c) serious eye damage/irritation	based on available data, the classification criteria are not met	
(d) respiratory/skin sensitisation	based on available data, the classification criteria are not met	
(e) germ cell mutagenicity	based on available data, the classification criteria are not met	
(f) carcinogenicity	based on available data, the classification criteria are not met	
(g) reproductive toxicity	based on available data, the classification criteria are not met	
	Octamethylcyclotetrasiloxane:	
	Rat (Inhalation): NOAEL 3,64 mg/l OECD 416	
	Decamethylcyclopentasiloxane:	
	Rat (Inhalation): NOAEL 3,64 mg/l OECD 416	
	Dodecamethylcyclohexasiloxane:	
	Rat, Oral NOAEL >= 1 000 mg/kg Method: OECD 422, OECD 414	
	Nat, Oral NOALE > 1 000 Hig/kg Method. OLOD 422, OLOD 414	
(h) STOT-single exposure	based on available data, the classification criteria are not met	
(i) STOT-repeated exposure	based on available data, the classification criteria are not met	
(i) or or repeated expectate		
	Octamethylcyclotetrasiloxane:	
	NOAEL (Rat, Inhalation): 1,820 mg/l Method: OECD 453	
	NOAEL (Rabbit, Dermal): 960 mg/kg Method: OECD 411	
	, , , , , , , , , , , , , , , , , , , ,	
	Decamethylcyclopentasiloxane:	
	NOAEL (Rat, Oral): >= 1 000 mg/kg	
	NOAEL (Rat, Inhalation - vapor): >= 2,42 mg/l	
	NOAEL (Rat, Dermal): >= 1 600 mg/kg	
	Dadacamathulayalahayasilayana	
	Dodecamethylcyclohexasiloxane:	
	NOAEL (Rat, Oral): >= 1 000 mg/kg Method: OECD 422	
	NOAEL (Rat, Inhalation - vapor): 0,0182 mg/l Method: OECD 413	
(j) aspiration hazard	based on available data, the classification criteria are not met	
O/	The state of the s	

11.2 Information on other hazards

None of the components are known to have endocrine disrupting properties.

SECTION 12: Ecological Information

12.1 Toxicity

The product is not classified as hazardous to the aquatic environment.

Octamethylcyclotetrasiloxane:

LC 50 (Oncorhynchus mykiss, 96 h): >= 0,022 mg/l

EC 50 (Water flea (Daphnia magna), 48 h): > 0,015 mg/l

NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 0,015 mg/l

EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0,022 mg/l

Decamethylcyclopentasiloxane:

NOEC (Oncorhynchus mykiss, 90 d): >= 0,014 mg/l

NOEC (Water flea (Daphnia magna), 21 d): >= 0,0046 mg/l

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l

EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l

Dodecamethylcyclohexasiloxane:

LC 50 (Oncorhynchus mykiss; 96 h; Flow through): > 0,016 mg/l OECD 204

EC 50 (Water flea (Daphnia magna); 48 h; Flow through): > 0,0029 mg/l OECD 202

NOEC (growth rate) (Algae (Pseudokirchneriella subcapitata); 72 h; Static): >= 0,002 mg/l OECD 201

ErC50 (Algae (Pseudokirchneriella subcapitata); 72 h; Static) : > 0,002 mg/l OECD 201

NOEC (Oncorhynchus mykiss; 90 d; Flow through) : >= 0,014 mg/l OECD 210

NOEC (Water flea (Daphnia magna); 21 d; semi-static); >= 0,0046 mg/l OECD 211

12.2 Persistence and degradability

The organic components in this product are expected to degrade very slowly.

Octamethylcyclotetrasiloxane

3.7 % (29 d) The component substance is not considered to be readily biodegradable.

Decamethylcyclopentasiloxane

0.14 % (28 d) The component substance is not readily biodegradable.

Dodecamethylcyclohexasiloxane

4.5 % (28 d, OECD 310) The component substance is not readily biodegradable.

12.3 Bioaccumulative potential

Component substances have the potential to bioaccumulate.

Octamethylcyclotetrasiloxane

Fathead Minnow, Bioconcentration Factor (BCF): 12 400

Decamethylcyclopentasiloxane

Fathead Minnow, Bioconcentration Factor (BCF): 7 060

Dodecamethylcyclohexasiloxane

Fathead Minnow, Bioconcentration Factor (BCF): 2 860 (OECD 305)

Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes:

Log Kow: 5.96 (calculated)

12.4 Mobility in soil

Version number: 12 Date: 12.02.21

Supersedes: 20.02.19

Once cured, this product is not expected to be mobile in the environment.

12.5 Results of PBT and vPvB assessment

Information on component substances:

Octamethylcyclotetrasiloxane: Meets PBT (persistent/bioaccumulative/toxic) criteria

Decamethylcyclopentasiloxane: Meets vPvB criteria

Dodecamethylcyclohexasiloxane: Meets vPvB criteria

12.6 Endocrine disrupting properties

None of the components are known to have endocrine disrupting properties.

12.7 Other adverse effects

None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate in suitable combustion chamber is suggested.

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

European Waste Codes: Unused product: 07 02 17

SECTION 14: Transport Information

Not classified as dangerous goods

	ADR	IMDG	ICAO
14.1 UN Number	None	None	None
14.2 UN Proper shipping name	None	None	None
14.3 Transport hazard class(es)	None	None	None
14.4 Packing group	None	None	None
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
14.7 Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory Information

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

EU REACH: This product contain substances listed on the Candidate List of Substances of Very High Concern

Octamethylcyclotetrasiloxane (D4) PBT Decamethylcyclopentasiloxane (D5) vPvB Dodecamethylcyclohexasiloxane (D6) vPvB

Inventory Status

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List: On or in compliance with the inventory

Japan (ENCS) List: On or in compliance with the inventory

China Inv. Existing Chemical Substances: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory

Philippines PICCS: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information: Reformatted in compliance with Regulation (EC) No 1907/2006, as amended by Regulation (EU) 2020/878. Sections 2, 3, 11, 12, 15 updated

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008

EC European Community/Commission

PBT Persistent, Bioaccumulative and Toxic

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006

vPvB very Persistent, very Bioaccumulative

References:

ECHA CHEM database

Suppliers' SDSs for component substances

Method used for classification of mixtures:

Ingredient based approaches

H Statements used in Section 3

H225 Highly flammable liquid and vapour

H226 Flammable liquid and vapour

H361f Suspected of damaging fertility

H361d Suspected of damaging the unborn child

H413 May cause long lasting harmful effects to aquatic life

Training requirements for workers

No special requirements