According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

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

1.1 Product identifier

Trade name Sikalastic® M 689 (Formerly MSeal M 689) Part B

UK-REACH Registration

Number

01-2119457015-45-XXXX

Substance name : Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-

(pisocyanatobenzyl) phenyl isocyanate

EC-No. 905-806-4

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

Product use : Polyurethane coating, Sealing system, For professional users

only.

1.3 Details of the supplier of the safety data sheet

Company name of supplier Sika Limited

Watchmead Welwyn Garden City

Hertfordshire. AL7 1BQ : +44 (0)1707 394444

Telephone Telefax : +44 (0)1707 329129 E-mail address of person : EHS@uk.sika.com

responsible for the SDS

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC)

24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H332: Harmful if inhaled. Skin irritation, Category 2 H315: Causes skin irritation. Eye irritation, Category 2 H319: Causes serious eye irritation.

Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

H317: May cause an allergic skin reaction. Skin sensitisation. Category 1 Carcinogenicity, Category 2 H351: Suspected of causing cancer. H335: May cause respiratory irritation.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

Specific target organ toxicity - repeated

H373: May cause damage to organs through pro-

Country GB 100000053430

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

exposure, Category 2

longed or repeated exposure if inhaled.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breath-

ing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged

or repeated exposure if inhaled.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.
P260 Do not breathe mist or vapours.
P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh

air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/ doctor.

Additional Labelling

"As from 24 August 2023 adequate training is required before industrial or professional use."

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS-No. : 9016-87-9

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Reaction mass of 4,4'- methylenediphenyl diisocy- anate and o- (pisocyanatobenzyl) phenyl isocyanate	9016-87-9 905-806-4	100	specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 % Acute toxicity estimate Acute inhalation toxicity (dust/mist): 2,24 mg/l 0,49 mg/l

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.

Rinse mouth with water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Asthmatic appearance

Cough

Respiratory disorder Allergic reactions Excessive lachrymation

Erythema Headache Dermatitis

See Section 11 for more detailed information on health effects

and symptoms.

Risks : irritant effects

sensitising effects

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon diox-

ide/sand/foam/alcohol resistant foam/chemical powder for

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- : No hazardous combustion products are known

5.3 Advice for firefighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Further information Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Personal precautions

Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, Methods for cleaning up

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Avoid formation of aerosol.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

For personal protection see section 8.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Follow standard hygiene measures when handling chemical

products

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accord-

ance with local regulations.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Cleaning with aprotic polar solvents must be avoided.

Consult most current local Product Data Sheet prior to any

use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *	
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate	9016-87-9	TWA	0,02 mg/m3 (NCO)	GB EH40	
	Further information: Capable of causing occupational asthma.				
		STEL	0,07 mg/m3 (NCO)	GB EH40	
		TWA	0,01 mg/m3 (NCO)	98/24/EC I	
	Further information: Skin, Dermal and respiratory sensitisation, Binding				
		STEL	0,02 mg/m3 (NCO)	98/24/EC I	

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Biological occupational exposure limits

Substance name	CAS-No.	Control parame- ters	Sampling time	Basis
Reaction mass of 4,4'- methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocy- anate	9016-87-9	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of exposure	GB EH40 BAT

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an ap-

proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu-

facturer specifications.

Suitable for short time use or protection against splashes:

Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed.

Suitable for permanent exposure:

Viton gloves (0.4 mm), breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345,

long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing

and stirring work.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work-

ing limits of the selected respirator.

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

organic vapor filter (Type A)

A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used. Ensure adequate ventilation, especially in confined areas.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : viscous
Colour : light yellow
Odour : aliphatic

Melting point/ range / Freez-

ing point

No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits

opper explosion limit / Op

per flammability limit

Upper explosion limit / Up- : No data available

Lower explosion limit /

Lower flammability limit

: No data available

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : ca. 1.000 mPa.s (20 °C)

Viscosity, kinematic : No data available

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

No data available

Vapour pressure : 0,01 hPa

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Revision Date: 13.11.2025

Density : ca. 1,11 g/cm3 (20 °C)

Relative vapour density : No data available

Particle characteristics : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

:

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

Components:

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate:

Acute inhalation toxicity : LC50 (Rat): > 2,24 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

Acute toxicity estimate: 2,24 mg/l Test atmosphere: dust/mist

Method: ATE value derived from LD50/LC50 value

Acute toxicity estimate: 0,49 mg/l Test atmosphere: dust/mist

Method: ATE value derived from LD50/LC50 value

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Revision Date: 13.11.2025

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

: There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized

wherever possible.

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

way.

Dispose of surplus and non-recyclable products via a licensed

waste disposal contractor.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

protection and waste disposal legislation and any regional

local authority requirements.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixtureRelevant EU provisions transposed through retained EU law

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Revision Date: 13.11.2025

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered: Number on list 56: Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl

isocyanate

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Not applicable

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors

Not applicable

Regulation (EU) No 2024/590 on substances that de-

plete the ozone layer

Not applicable

UK REACH List of substances subject to authorisation

(Annex XIV)

Not applicable

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

Not applicable

Control of Major Accident Hazards Regulations Not applicable

2015 (COMAH)

Volatile organic compounds : Law on the incentive tax for volatile organic compounds

(VOCV) no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial and

livestock rearing emissions (integrated pollution prevention

and control)
Not applicable

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations

(COSHH)

May be subject to the Control of Major Accident Hazards

Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

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

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Revision Date: 13.11.2025

SECTION 16: Other information

Full text of other abbreviations

98/24/EC I : Europe. Chemical Agents Directive - Annex I: Binding occupa-

tional exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance values

98/24/EC I / STEL : Limit values Short-term 98/24/EC I / TWA : Limit values 8 hours

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADR : European Agreement concerning the International Carriage of

Dangerous Goods by Road

CAS : Chemical Abstracts Service
DNEL : Derived no-effect level

EC50 : Half maximal effective concentration

GHS : Globally Harmonized System

IATA : International Air Transport Association

IMDG : International Maritime Code for Dangerous Goods

LD50 : Median lethal dosis (the amount of a material, given all at

once, which causes the death of 50% (one half) of a group of

test animals)

LC50 : Median lethal concentration (concentrations of the chemical in

air that kills 50% of the test animals during the observation

period)

MARPOL : International Convention for the Prevention of Pollution from

Ships, 1973 as modified by the Protocol of 1978

OEL : Occupational Exposure Limit

PBT : Persistent, bioaccumulative and toxic PNEC : Predicted no effect concentration

REACH : Regulation (EC) No 1907/2006 of the European Parliament

and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

SVHC : Substances of Very High Concern

vPvB : Very persistent and very bioaccumulative

Further information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version!

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



Sikalastic® M 689 (Formerly MSeal M 689) Part B

Date of last issue: 31.07.2024 Version 1.1 Print Date 13.11.2025

Revision Date: 13.11.2025

GB / EN