

Version 5.0

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

1.1 Product identifier

Trade name

: SikaMelt[®]-677

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

Product use : Adhesive

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Hellas ABEE
		15 Protomagias Street
		145 68 Kryoneri / Athens
Telephone	:	+30 210 81 60 600
Telefax	:	+30 210 81 60 606
E-mail address of person	:	EHS@gr.sika.com
responsible for the SDS		-

1.4 Emergency telephone number

Poison Information Center + 30 210 77 93 777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms obreathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :		
Signal word :	Danger	
Hazard statements :	H317 H334	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H351	Suspected of causing cancer.
Precautionary statements :	Prevention: P201	Obtain special instructions before use.

or

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 SikaMalt® 677

SikaMelt[®]-677

Print Date 20.07.2023

Revision Date: 20.07.2023				
Date of last issue: 02.02.2022				

Version 5.0

P261 P280 P284	Avoid breathing mist or vapours. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of inadequate ventilation wear respir- atory protection.
Response:	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical ad- vice/ attention.

Hazardous components which must be listed on the label:

4,4'-methylenediphenyl diisocyanate n-butyl methacrylate methyl methacrylate

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.

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.

SikaMelt®-677

Revision Date: 20.07.2023
Date of last issue: 02.02.2022



Version 5.0

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
4,4'-methylenediphenyl diisocya- nate	101-68-8 202-966-0 01-2119457014-47- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H314 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 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 esti- mate Acute inhalation tox- icity (dust/mist): 1,5	>= 2,5 - < 5
n-butyl methacrylate	97-88-1 202-615-1 01-2119486394-28- XXXX	mg/l Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 1
methyl methacrylate	80-62-6 201-297-1 01-2119452498-28- XXXX	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	< 1

For explanation of abbreviations see section 16.

Revision Date: 20.07.2023 Date of last issue: 02.02.2022 Version 5.0



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. 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	 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 a	ind effects, both acute and delayed				
Symptoms	: Asthmatic appearance Allergic reactions See Section 11 for more detailed information on health effects and symptoms.				
Risks	: sensitising effects				
	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Suspected of causing cancer.				
4.3 Indication of any immediate Treatment	medical attention and special treatment needed : Treat symptomatically.				

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media : In case of

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- : No hazardous combustion products are known



Revision Date: 20.07.2023 Date of last issue: 02.02.2022		Version 5.0	Print Date 20.07.20
ucts			
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	In the event of fire, wear self-contained brea	thing apparatus.
Further information	:	Standard procedure for chemical fires.	
SECTION 6: Accidental releas	ie I	neasures	
6.1 Personal precautions, protec	tiv	e equipment and emergency procedures	
Personal precautions	:	Use personal protective equipment. Deny access to unprotected persons.	
6.2 Environmental precautions			
Environmental precautions	:	Do not flush into surface water or sanitary see If the product contaminates rivers and lakes respective authorities.	
6.3 Methods and material for con	ntai	nment and cleaning up	
Methods for cleaning up	:	Soak up with inert absorbent material (e.g. s acid binder, universal binder, sawdust). Keep in suitable, closed containers for dispo	
6.4 Reference to other sections			

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. 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 application area. Follow standard hygiene measures when handling chemical products
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.



Revision Date: 20.07.2023 Date of last issue: 02.02.2022	Version 5.0	Print Date 20.07.2023
Hygiene measures :	Handle in accordance with good industri practice. When using do not eat or drink smoke. Wash hands before breaks and	. When using do not
7.2 Conditions for safe storage, in	cluding any incompatibilities	
Requirements for storage : areas and containers	Keep container tightly closed in a dry an place. Containers which are opened mus sealed and kept upright to prevent leaka ance with local regulations.	st be carefully re-
Further information on stor- : age stability	No decomposition if stored and applied a	as directed.
7.3 Specific end use(s)		
Specific use(s) :	Cleaning with aprotic polar solvents mus Consult most current local Product Data 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 *
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 ppm 0,2 mg/m3	GR OEL
		STEL	0,02 ppm 0,2 mg/m3	GR OEL
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
	Further inform	Further information: Indicative		
		STEL	100 ppm	2009/161/EU
		TWA	50 ppm	GR OEL
		STEL	100 ppm	GR OEL

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

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:

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

SikaMelt®-677

Revision Date: 20.07.2023

Date of last issue: 02.02.2022



Version 5.0

	Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.
	: When handling hot material, wear heat-resistant protective gloves that are able to withstand the temperature of molten product.
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	 Even at normal processing temperatures it may occur that hot melts form vapours, which often have an unpleasant odour. If the recommended processing temperatures are exceeded over a fairly long period, additionaly the formation of hazard- ous organic decomposition products is possible. It is recom- mended to remove such vapours e.g. by using an efficient exhauster.
	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. organic vapor (Type A) and particulate filter 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. A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm P1: Inert material; P2, P3: hazardous substances Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular 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.
Environmental exposure co	ontrols
Conoral advisa	. Do not fluch into ourfood water or conitary cower system

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

Physical state	: solid
Colour	: opaque
Odour	: odourless

Melting point/range / Freezing : No data available

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 SikaMelt[®]-677

Print Date 20.07.2023

:	No data available	
:	No data available	
exp	losive limits	
:	No data available	
:	No data available	
:	> 200 °C Method: closed cup	
:	No data available	
:	No data available	
:	Not applicable substance/mixture is non-soluble (in water)	
:	Not applicable	
:	Not applicable	
:	insoluble	
:	No data available	
:	0,01 hPa	
:	ca. 1,1 g/cm3 (20 °C)	
:	No data available	
:	No data available	
	exp : :	 No data available explosive limits No data available No data available No data available > 200 °C Method: closed cup No data available No data available No data available Not applicable substance/mixture is non-soluble (in water) Not applicable Not applicable Insoluble Insoluble Q,01 hPa ca. 1,1 g/cm3 (20 °C) No data available

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

SikaMelt®-677

Revision Date: 20.07.2023	
Date of last issue: 02.02.2022	

Version 5.0

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 decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Components:

4,4'-methylenediphenyl diisocyanate:

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement
		Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method
methyl methacrylate:		
Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 29,8 mg/l Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Revision Date: 20.07.2023 Date of last issue: 02.02.2022 Version 5.0



Serious eye damage/eye irritation

Not classified based on available information.

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 based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: 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 12: Ecological information

12.1 Toxicity

Components:methyl methacrylate:Toxicity to fish:NOEC (Danio rerio (zebra fish)): 9,4 mg/lToxicity to daphnia and otheraquatic invertebrates:EC50 (Daphnia magna (Water flea)): 69 mg/lExposure time: 48 hMethod: OECD Test Guideline 202

Print Date 20.07.2023

Revision Date: 20.07.2023 Date of last issue: 02.02.2022 Version 5.0

NOEC : 37 mg/l Exposure time: 21 d Method: OECD Test Guideline 202

Toxicity to daphnia and other	:	NOEC: 37 mg/l
aquatic invertebrates (Chron-		Exposure time: 21 d
ic toxicity)		Species: Daphnia magna (Water flea)

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-	:	There is no data available for this product.
mation		

:

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



Version 5.0

at all times comply with the requirements of environmental 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
ΙΑΤΑ	:	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
ΙΑΤΑ	:	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
ΙΑΤΑ	:	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 mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

: Conditions of restriction for the following entries should be considered:



Sikalvielt 0//			JING
Revision Date: 20.07.2023 Date of last issue: 02.02.2022	Version	5.0	Print Date 20.07.20
mixtures and articles (Annex X)	/11)		Number on list 3
			4,4'-methylenediphenyl diisocyanate (Number on list 74, 56)
International Chemical Weapon Schedules of Toxic Chemicals		:	Not applicable
REACH - Candidate List of Sub Concern for Authorisation (Artic		:	None of the components are listed (=> 0.1 %).
REACH - List of substances sul (Annex XIV)	bject to authorisation	:	Not applicable
Regulation (EC) No 1005/2009 plete the ozone layer	on substances that de-	:	Not applicable
Regulation (EU) 2019/1021 on tants (recast)	persistent organic pollu-	:	Not applicable
Regulation (EC) No 649/2012 o ment and the Council concernir of dangerous chemicals		:	Not applicable
REACH Information:	All substances contain - registered by our up - registered by us, and - excluded from the re - exempted from the r	strea d/or egula	am suppliers, and/or ation, and/or
Seveso III: Directive 2012/18/El jor-accident hazards involving c	•	men	t and of the Council on the control of ma-
Volatile organic compounds	(VOCV)		or volatile organic compounds ds (VOC) content: < 0,01% w/w
	emissions (integrated	poll	4 November 2010 on industrial ution prevention and control) ds (VOC) content: < 0,01% w/w

15.2 Chemical safety assessment

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

Revision Date: 20.07.2023 Date of last issue: 02.02.2022 Version 5.0



SECTION 16: Other information

Full text of H-Statements H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H315 Causes skin irritation. : May cause an allergic skin reaction. H317 : Causes serious eye irritation. H319 : H332 Harmful if inhaled. : May cause allergy or asthma symptoms or breathing difficul-H334 ties if inhaled. May cause respiratory irritation. H335 Suspected of causing cancer. H351 May cause damage to organs through prolonged or repeated H373 exposure if inhaled. Full text of other abbreviations Acute Tox. Acute toxicity Carc. Carcinogenicity Eye Irrit. Eye irritation Flammable liquids Flam. Liq. : Resp. Sens. Respiratory sensitisation : Skin Irrit. Skin irritation : Skin Sens. Skin sensitisation STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure Europe. COMMISSION DIRECTIVE 2009/161/EU establishing 2009/161/EU a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC GR OEL Greece. Exposure limit values 2009/161/EU / TWA Limit Value - eight hours Short term exposure limit 2009/161/EU / STEL Long term exposure limit GR OEL / TWA 1 Short term exposure limit GR OEL / STEL European Agreement concerning the International Carriage of ADR Dangerous Goods by Road **Chemical Abstracts Service** CAS DNEL Derived no-effect level **EC50** Half maximal effective concentration : **Globally Harmonized System** GHS International Air Transport Association IATA

- : International Maritime Code for Dangerous Goods
- 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)
 Median lethal concentration (concentrations of the chemical in
- Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
 International Convention for the Provention of Pollution from
- International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
 Occupational Exposure Limit

IMDG LD50

LC50

OEL

MARPOL



Revision Date: 20.07.2023 Date of last issue: 02.02.2022	Version 5.0	Print Date 20.07.202
PBT PNEC REACH	Persistent, bioaccumulative and toxic Predicted no effect concentration Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi-	
SVHC vPvB	cals (REACH), establishing a European 0Substances of Very High ConcernVery persistent and very bioaccumulative	C <i>Y</i>

Further information

Classification of the mixture:		Classification procedure:
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method

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 !

GR / EN