according to Regulation (EC) No 1907/2006

# 2060 TUNSEAL Scheibenkleber 400 ml Folienbeutel K12060040AB

Revision date: 09.10.2018

Product code: 1400437

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

# 1.1. Product identifier

2060 TUNSEAL Scheibenkleber 400 ml Folienbeutel K12060040AB

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

### Use of the substance/mixture

Adhesives, sealants

#### 1.3. Details of the supplier of the safety data sheet

Company name:	TUNAP GmbH & Co. KG	
Street:	Bürgermeister-Seidl-Str. 2	
Place:	D-82515 Wolfratshausen	
Telephone:	+49 (0) 8171/1600 - 0	Telefax: +49 (0) 8171/1600 - 40
e-mail:	sdb@tunap.com	
Internet:	www.tunap.com	
1.4. Emergency telephone	+49 (0) 30 30 686 790 (Giftnotruf Berlin)	
<u>number:</u>		

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories: Respiratory or skin sensitisation: Resp. Sens. 1 Hazard Statements: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

# 2.2. Label elements

# Regulation (EC) No. 1272/2008

#### Hazard components for labelling

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate

Signal word:

Pictograms:



Danger

#### Hazard statements

H334

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

#### Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P284	Wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P501	Dispose of contents/container to

#### Special labelling of certain mixtures

Contains isocyanates. May produce an allergic reaction.

# 2.3. Other hazards

EUH204

No information available.

# **SECTION 3: Composition/information on ingredients**

according to Regulation (EC) No 1907/2006

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# 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Re	gulation (EC) No. 1272/2008 [CL	P]	
101-68-8	4,4'-methylenediphenyl diisoc	yanate; diphenylmethane-4,4'-dii	socyanate	0.1 - < 1 %
	202-966-0	615-005-00-9		
	Carc. 2, Acute Tox. 4, Skin Irr 2; H351 H332 H315 H319 H3		kin Sens. 1, STOT SE 3, STOT RE	

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

# After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

according to Regulation (EC) No 1907/2006

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## 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

# 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Further information on handling

Avoid contact with skin and eyes.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

## Hints on joint storage

No special measures are necessary.

## Further information on storage conditions

Store in a cool dry place. Observe legal regulations and provisions.

# 7.3. Specific end use(s)

Adhesives, sealants

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

## Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
-	Isocyanates, all (as -NCO) Except methyl isocvanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL

## Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long term exposure: after several previous shifts

d before next shift

blood (B)

Urine (U)

# 8.2. Exposure controls

according to Regulation (EC) No 1907/2006

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## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

# Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Wear eye protection/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

Observe legal regulations and provisions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	viscous black characteristic	_	To ad up adda ad
			Test method
pH-Value (at 20 °C):		not determined	DIN 19208
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range:		208 °C	
Flash point:		164 °C	ISO 3679
Flammability			
Solid:		not determined	
Gas:		not applicable	
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Auto-ignition temperature			
Solid:		not determined	
Gas:		not applicable	
Decomposition temperature:		not determined	
Oxidizing properties Not oxidising.			
Vapour pressure:		not determined	
Density (at 20 °C):		1,142 g/cm³	DIN 51757

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Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.		
Solubility in other solvents not determined			
Partition coefficient:	not determined		
Viscosity / dynamic:		DIN 53019-1	
Viscosity / kinematic: (at 40 °C)		DIN EN ISO 3104	
Flow time: (at 20 °C)		DIN EN ISO 2431	
Vapour density:	not determined		
Evaporation rate:	not determined		
.2. Other information			
Solid content:	not determined		

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

# 10.4. Conditions to avoid

none

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# Further information

Do not mix with other chemicals.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate					
	oral	LD50 mg/kg	9200	Rat	GESTIS	
	inhalation vapour	ATE	11 mg/l			
	inhalation aerosol	ATE	1,5 mg/l			

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# Irritation and corrosivity

Based on available data, the classification criteria are not met.

# Sensitising effects

May cause sensitisation by inhalation and skin contact. (4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate)

## Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. No indications of human carcinogenicity exist. No indications of human germ cell mutagenicity exist. No indications of human reproductive toxicity exist.

# STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

# Specific effects in experiment on an animal

No information available.

# Additional information on tests

The mixture is classified as hazardous according to Directive 1999/45/EC.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

# The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

The product has not been tested.

## 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The product has not been tested.

## 12.6. Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

080409

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

# Waste disposal number of waste from residues/unused products

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

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No dangerous good in sense of this transport regulation.

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# Waste disposal number of used product

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF 080409 COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS: wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

## Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number:

14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no
14.6. Special precautions for user	
No dongorous good in sonso of this tr	apapart regulation

No dangerous good in sense of this transport regulation.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No dangerous good in sense of this transport regulation.

### **SECTION 15: Regulatory information**

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

#### EU regulatory information

according to Regulation (EC) No 1907/2006

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Restrictions on use (REACH, annex XVII)	:	
Entry 56: 4,4'-methylenediphenyl diisc	ocyanate; diphenylmethane-4,4'-diisocyanate	
2010/75/EU (VOC):	No information available.	
2004/42/EC (VOC):	No information available.	
Additional information		
Safety Data Sheet according to Regul	ation (EC) No. 1907/2006 (REACH)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	
Water contaminating class (D):	2 - clearly water contaminating	
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.	
15.2. Chemical safety assessment		
Chemical safety assessments for sub-	stances in this mixture were not carried out.	

# **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

# Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Resp. Sens. 1; H334	Calculation method

# Relevant H and EUH statements (number and full text)

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 breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

# **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)