

# **Safety Data Sheet**

according to UK REACH Regulation

### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 1 of 10

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

### 1.1. Product identifier

2060 Scheibenklebstoff 400 ml AB

UFI: UUMX-U0M1-N00K-2TXF

#### 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: Buergermeister-Seidl-Strasse 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 111 NHS (National Health Service)

number:

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Resp. Sens. 1; H334

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

#### **GB CLP Regulation**

### Hazard components for labelling

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

Signal word: Danger

Pictograms:



# **Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

# **Precautionary statements**

P260 Do not breathe vapours.

P262 Do not get in eyes, on skin, or on clothing.

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.

# Special labelling of certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.

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

#### 3.2. Mixtures



# **Safety Data Sheet**

according to UK REACH Regulation

### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 2 of 10

#### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	Classification (GB CLP Regulation)			
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate		0.1 - < 1 %	
	202-966-0	615-005-00-9	01-2119457014-47	
	Carc. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, STOT RE 2; H351 H332 H315 H319 H334 H317 H335 H373			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	Limits, M-factors and ATE	
101-68-8	202-966-0	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	0.1 - < 1 %
	9200 mg/kg SI	= 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = kin Irrit. 2; H315: >= 5 - 100	

### **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

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

### After contact with eves

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Headache, nausea, dizziness, fatique, skin irritation

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

# Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Extinguishing powder.

### Unsuitable extinguishing media

High power water jet.

# 5.2. Special hazards arising from the substance or mixture

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.



# **Safety Data Sheet**

according to UK REACH Regulation

#### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 3 of 10

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

# **SECTION 6: Accidental release measures**

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

#### General advice

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

#### For non-emergency personnel

First aider: Pay attention to self-protection!

### For emergency responders

Fight fire with normal precautions from a reasonable distance.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

### Other information

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.

### Advice on general occupational hygiene

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.

# 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)



# **Safety Data Sheet**

according to UK REACH Regulation

# 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 4 of 10

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 isocyanate	-	0.02		TWA (8 h)	WEL
		-	0.07		STEL (15 min)	WEL

#### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate					
Worker DNEL, long-term		inhalation	local	0,05 mg/m³		
Worker DNEL, acute		inhalation	local	0,1 mg/m³		
Consumer DNEL, long-term		inhalation	local	0,025 mg/m³		
Consumer DNEL, acute		inhalation	local	0,05 mg/m³		

#### **PNEC values**

CAS No	Substance				
Environmenta	Environmental compartment				
101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate				
Freshwater 0,0037 mg/l					
Freshwater (intermittent releases)		0,037 mg/l			
Marine water		0,00037 mg/l			
Freshwater sediment		11,7 mg/kg			
Marine sediment		1,17 mg/kg			
Soil		2,33 mg/kg			

#### Additional advice on limit values

a no restriction

b End of exposure or end of shift

c at long-term exposure:

d before next shift

blood (B)

Urine (Ù)

# 8.2. Exposure controls

# Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

# Individual protection measures, such as personal protective equipment

### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.

EN 166

### Hand protection

Protect skin by using skin protective cream. 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



# **Safety Data Sheet**

according to UK REACH Regulation

# 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 5 of 10

chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min

Thickness of the glove material 0,45 mm

**EN ISO 374** 

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

### Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)...

Filtering device with filter or ventilator filtering device of type: A

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

#### **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: viscous
Colour: black
Odour: characteristic

Test method

Print date: 19.11.2024

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

208 °C

boiling range:

Flammability:

not determined

not applicable

Lower explosion limits:

not determined

Upper explosion limits:

Upper explosion limits:

not determined

not determined

Flash point: 164 °C ISO 3679

Decomposition temperature: not determined

pH-Value (at 20 °C): not determined DIN 19268

Viscosity / kinematic: DIN EN ISO 3104

(at 40 °C)

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 n-octanol/water: not determined Vapour pressure: not determined

Density (at 20 °C): 1,142 g/cm³ DIN 51757

Relative vapour density: not determined

### 9.2. Other information

### Information with regard to physical hazard classes

Self-ignition temperature

Solid: not determined Gas: not applicable

Oxidizing properties Not oxidising.



# **Safety Data Sheet**

according to UK REACH Regulation

#### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 6 of 10

### Other safety characteristics

Evaporation rate: not determined Solid content: not determined

Viscosity / dynamic: DIN 53019-1
Flow time: DIN EN ISO 2431

(at 20 °C)

# **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 normal conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

#### 10.5. Incompatible materials

Oxidizing agents. Pyrophoric or self-heating substances.

#### 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO2, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

### **Further information**

Do not mix with other chemicals.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

# 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.

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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

# Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

### Sensitising effects



# **Safety Data Sheet**

according to UK REACH Regulation

#### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 7 of 10

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (4,4'-methylenediphenyl

diisocyanate; diphenylmethane-4,4'-diisocyanate)
Contains isocyanates. May produce an allergic reaction.

# Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

### Information on likely routes of exposure

Ingestion, Inhalation, Skin contact, Eye contact.

Reference to other sections: 2.1, 4.2.

### 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.

### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Other information

No information available.

### **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 substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. 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.



# **Safety Data Sheet**

according to UK REACH Regulation

#### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 8 of 10

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

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.

### List of Wastes Code - residues/unused products

080409 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

### List of Wastes Code - used product

080409 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

#### List of Wastes Code - 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 or ID number:** 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.

# Inland waterways transport (ADN)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

<u>14.3. Transport hazard class(es):</u> 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 or ID 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.

No dangerous good in sense of this transport regulation.

Marine pollutant:

# Air transport (ICAO-TI/IATA-DGR)

14.4. Packing group:

14.1. UN number or ID number: No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

<u>14.3. Transport hazard class(es):</u> 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



# **Safety Data Sheet**

according to UK REACH Regulation

### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 9 of 10

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

### 14.7. Maritime transport in bulk according to IMO instruments

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

Restrictions on use (REACH, annex XVII):

Entry 56

Directive 2010/75/EU on industrial

...

No information available.

emissions:

Directive 2004/42/EC on VOC in

No information available.

paints and varnishes:

#### **Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

# **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles 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 hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,6,8,10,11,14,16.



# **Safety Data Sheet**

according to UK REACH Regulation

#### 2060 Scheibenklebstoff 400 ml AB

Revision date: 19.11.2024 Product code: 1400437 Page 10 of 10

### Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Irrit: Eye irritation

Resp. Sens: Respiratory sensitisation

Skin Sens: Skin sensitisation Carc: Carcinogenicity

STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement

concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

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 (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL: Workplace Exposure Limits TWA (EC): Time-Weighted Average ATE: Acute Toxicity Estimate

ATEL (EC): Short Term Exposure Limit

LC50: Lethal Concentration

EC50:half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

# Classification for mixtures and used evaluation method according to GB CLP Regulation

	<u> </u>
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.
EUH204	Contains isocyanates. May produce an allergic reaction.

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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