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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 1/8



# Plastic Adhesive 2C, Componente A

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

#### 1.1 Product identifier

## Trade name/designation:

Plastic Adhesive 2C, Componente A

#### **Article No.:**

KSK-050

# 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

Adhesives, sealants.

Restricted to professional users.

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

### Manufacturer/Supplier:

#### **ProGlass GmbH**

Michael-Becker-Str. 2

73235 Weilheim an der Teck

**GERMANY** 

Telephone: +49 7023 90013-0
Telefax: +49 7023 90013-23
E-mail: info@proglass.de
Website: www.proglass.de

E-mail (competent person): info@proglass.de

#### 1.4 Emergency phone number

24h: +49 551 19240

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories		Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation

## 2.2 Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

# **Hazard pictograms:**



# GHS07

Exclamation mark.

Signal word: Warning

<b>Hazard statements</b>	for health hazards
H319	Causes serious eye irritation.

Precautionary statements Prevention	
P280	Wear protective gloves and eye/face protection.

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 2/8



# Plastic Adhesive 2C, Componente A

Precautionary statements Response		
P302+P352	IF ON SKIN: Wash with plenty of water.	
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	

#### 2.3 Other hazards

# Adverse human health effects and symptoms:

May cause skin irritation.

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

#### 3.2 Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 64852-22-8	Glyceryl Poly(oxypropylene)triamine	1 - < 3
	Eye Dam. 1, Skin Irrit. 2, Aqua. Chronic 3	Wt %
	♦ Danger H315-H318-H412	

Full text of H- and EUH-phrases: see section 16.

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

## 4.1 Description of first aid measures

#### **General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Change contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water. In case of skin irritation, consult a physician.

#### After eye contact:

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

#### After ingestion:

Rinse mouth immediately and drink plenty of water. Get medical advice/attention.

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

Causes serious eye irritation. May cause skin irritation.

# **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:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2).

## 5.2 Special hazards arising from the substance or mixture

## **Hazardous combustion products:**

In case of fire may be liberated: Carbon oxides (COx), Gases/vapours, toxic.

# 5.3 Advice for firefighters

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

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 3/8



# Plastic Adhesive 2C, Componente A

#### 5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

## 6.1.1 For non-emergency personnel

#### Personal precautions:

Provide adequate ventilation. Avoid contact with eyes and skin. Remove persons to safety.

## **Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

#### **6.1.2 For emergency responders**

## Personal protection equipment:

Personal protection equipment: see section 8

## 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

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

#### For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up:

Wash with plenty of water.

### 6.4 Reference to other sections

Safe handling: see section 7,

Personal protection equipment: see section 8,

Disposal: see section 13.

# 6.5 Additional information

Special danger of slipping by leaking/spilling product.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Protective measures

### Advices on safe handling:

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8).

#### Fire prevent measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against static discharges.

# **Environmental precautions:**

Discharge into the environment must be avoided.

## Advices on general occupational hygiene

When using do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse. Avoid contact with eyes and skin. Wash hands and face before breaks and after work and take a shower if necessary. Draw up and observe skin protection programme.

## 7.2 Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

# Requirements for storage rooms and vessels:

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container.

#### Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 4/8



# Plastic Adhesive 2C, Componente A

#### Further information on storage conditions:

Protect from frost and heat.

# 7.3 Specific end use(s)

#### **Recommendation:**

Adhesives, sealants.

Observe instructions for use.

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

## 8.1 Control parameters

No data available.

#### 8.2 Exposure controls

## 8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Generation/formation of aerosols: Devices with local exhaust / Technical ventilation of workplace

# 8.2.2 Personal protection equipment







#### **Eye/face protection:**

Eye glasses with side protection (EN 166).

#### Skin protection:

Recommendation: Tested protective gloves must be worn (EN 374).

Suitable material: NBR (Nitrile rubber)

Material thickness: ≥ 0,11 mm

Breakthrough time (maximum wearing time): ≥ 480 mm

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. The exact break trough time has to be obtained from the protective glove manufacturer and must be observed. Check leak tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

## Respiratory protection:

Usually no personal respirative protection necessary. Provide adequate ventilation.

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Use appropriate respiratory protection. Combination filtering device (EN 14387), Filter type A1-P2.

# Other protection measures:

Wear suitable protective clothing.

#### 8.2.3 Environmental exposure controls

No data available.

#### 8.3 Additional information

No data available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state: liquid Colour: black Odour: not determined

# Safety relevant basic data

Parameter		at	Method	Remark
рН	not applicable			
Melting point	not determined			
Freezing point	not determined			

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 5/8



# Plastic Adhesive 2C, Componente A

Parameter		at	Method	Remark
Initial boiling point and boiling	> 200 °C			
range				
Decomposition temperature	not determined			
Flash point	182 °C			
Evaporation rate	not determined			
Ignition temperature	not determined			
Upper/lower flammability or explosive limits	not applicable			
Vapour pressure	1 Pa	20 °C		
Vapour density	not determined			
Density	1.02 g/ml	25 °C		
Bulk density	not applicable			
Water solubility	insoluble			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	860 mPa*s	25 °C		
Kinematic viscosity	not determined			

#### 9.2 Other information

No data available.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

See section 10.3

#### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4 Conditions to avoid

Protect from frost and heat.

# 10.5 Incompatible materials

Oxidizing agent

## 10.6 Hazardous decomposition products

In case of fire may be liberated: Carbon oxides (COx), Gases/vapours, toxic.

# **Further information**

No data available.

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute oral toxicity:

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

# Acute dermal toxicity:

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

# Acute inhalation toxicity:

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

# Skin corrosion/irritation:

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

May cause skin irritation.

#### Eye damage/irritation:

Causes serious eye irritation.

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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 6/8



# Plastic Adhesive 2C, Componente A

#### Respiratory or skin sensitisation:

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

## 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.

#### **STOT-single exposure:**

Based on available data, the classification criteria are not met. aerosol or mist formation: May cause respiratory irritation.

#### 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.

#### Additional information:

No data available.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

#### Aquatic toxicity:

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

# 12.2 Persistence and degradability

# **Biodegradation:**

No data available.

## 12.3 Bioaccumulative potential

## **Accumulation / Evaluation:**

No indication of bioaccumulation potential.

# 12.4 Mobility in soil

No data available.

# 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6 Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Waste treatment options

#### **Appropriate disposal / Product:**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

## Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Completely emptied packages can be recycled.

# Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal. Do not allow to enter into surface water or drains.

#### 13.2 Additional information

Waste for disposal is to be classified and labelled.

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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 7/8



# Plastic Adhesive 2C, Componente A

# **SECTION 14: Transport information**

No dangerous good in sense of these transport regulations.

#### 14.1 UN-No.

not relevant

# 14.2 UN proper shipping name

not relevant

#### 14.3 Transport hazard class(es)

not relevant

#### 14.4 Packing group

not relevant

#### 14.5 Environmental hazards

not relevant

# 14.6 Special precautions for user

not relevant

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not relevant

#### **Additional information:**

No data available.

# **SECTION 15: Regulatory information**

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

# 15.1.1 EU legislation

# Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

## 15.1.2 National regulations

No data available.

## 15.2 Chemical Safety Assessment

No data available.

#### 15.3 Additional information

No data available.

# **SECTION 16: Other information**

## 16.1 Indication of changes

No data available.

## 16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu

## 16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): http://www.echa.europa.eu

ECHA, C&L Inventory: http://echa.europa.eu/information-on-chemicals/cl-inventory-database ECHA, Registered substances: http://echa.europa.eu/information-on-chemicals/registered-substances GESTIS (Gefahrstoffinformationssystem der DGUV): http://www.dguv.de/ifa/GESTIS/index.jsp

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 8/8



# Plastic Adhesive 2C, Componente A

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

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories		Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation

# 16.5 Relevant H- and EUH-phrases

Hazard statements	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

# 16.6 Training advice

No data available.

# 16.6 Additional information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. 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. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 1/9



# Plastic Adhesive 2C, Componente B

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

#### 1.1 Product identifier

## Trade name/designation:

Plastic Adhesive 2C, Componente B

#### **Article No.:**

KSK-050

# 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture:

Adhesives, sealants.

Restricted to professional users.

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

### Manufacturer/Supplier:

## **ProGlass GmbH**

Michael-Becker-Str. 2

73235 Weilheim an der Teck

**GERMANY** 

Telephone: +49 7023 90013-0
Telefax: +49 7023 90013-23
E-mail: info@proglass.de
Website: www.proglass.de

E-mail (competent person): info@proglass.de

#### 1.4 Emergency phone number

24h: +49 551 19240

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation
STOT-repeated exposure (STOT RE 2)	H373: May cause damage to organs through prolonged or repeated exposure.	Calculation
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	Calculation
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	Calculation
Carcinogenicity (Carc. 2)	H351: Suspected of causing cancer.	Calculation
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	Calculation

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 2/9



# Plastic Adhesive 2C, Componente B

#### 2.2 Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms:





Exclamation mark.

Health hazard

Signal word: Danger

# Hazard components for labelling:

Diphenylmethane diisocyanate, isomers and homologues

Hazard statements for health hazards		
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.	

Supplemental Hazard information (EU)	
EUH204	Contains isocyanates. May produce an allergic reaction.

Precautionary statements Prevention		
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

Precautionary statements Response		
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	

Precautionary statements Storage		
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.	

#### 2.3 Other hazards

No data available.

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

# 3.2 Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Content
CAS No.: 9016-87-9	Diphenylmethane diisocyanate, isomers and homologues STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT RE 2  Danger H315-H317-H319-H332-H334-H335-H351-H373	70 - 90 Wt %

Full text of H- and EUH-phrases: see section 16.

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 3/9



# Plastic Adhesive 2C, Componente B

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

## Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

#### In case of skin contact:

Remove contaminated, saturated clothing immediately. Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. In case of skin irritation, consult a physician.

#### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Call a physician immediately.

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

Irritating to eyes and skin. May cause respiratory irritation. May produce an allergic reaction. May cause cancer. May cause damage to organs through prolonged or repeated exposure.

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. Treat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2), Sand, Extinguishing blanket

# 5.2 Special hazards arising from the substance or mixture

Vapours can form explosive mixtures with air.

#### **Hazardous combustion products:**

In case of fire may be liberated: Isocyanates, Nitrogen oxides (NOx), Carbon oxides (COx). Possible in traces: Hydrogen cyanide (hydrocyanic acid)

#### 5.3 Advice for firefighters

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

#### 5.4 Additional information

Heating causes rise in pressure with risk of bursting. Move undamaged containers from immediate hazard area if it can be done safely. Beware of reignition. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

#### Personal precautions:

Avoid contact with eyes and skin. Do not breathe gas/vapour/aerosol. Remove persons to safety.

#### **Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 4/9



# Plastic Adhesive 2C, Componente B

## 6.1.2 For emergency responders

## **Personal protection equipment:**

Personal protection equipment: see section 8

# 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

## 6.3 Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Disposal: see section 13.

#### For cleaning up:

Clean floors and contaminated objects with: Water with tenside additive

#### 6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

#### 6.5 Additional information

Use appropriate container to avoid environmental contamination.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### **Protective measures**

#### Advices on safe handling:

Provide adequate ventilation. Conditions to avoid: Aerosol or mist formation. While curing by reaction with moisture the following substances are formed and released: carbon dioxide (CO2). Do not breathe gas/vapour/aerosol. Avoid contact with eyes and skin. Wear personal protection equipment (refer to section 8).

#### Fire prevent measures:

Highly flammable: Keep away from sources of ignition - No smoking.

## **Environmental precautions:**

Discharge into the environment must be avoided.

## Advices on general occupational hygiene

Avoid contact with eyes and skin. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

#### 7.2 Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Protect from moisture.

#### Requirements for storage rooms and vessels:

Keep/Store only in original container.

## Hints on storage assembly:

Keep away from food, drink and animal feedingstuffs.

# Further information on storage conditions:

Conditions to avoid: Frost

# 7.3 Specific end use(s)

#### Recommendation:

Adhesives, sealants.

Observe instructions for use.

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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 5/9



# Plastic Adhesive 2C, Componente B

# SECTION 8: Exposure controls / Personal protection

## 8.1 Control parameters

## 8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	<ol> <li>Long-term occupational exposure limit value</li> <li>Short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
WEL (GB)	Diphenylmethane diisocyanat e, isomers and homologues CAS No.: 9016-87-9	① 0.02 mg/m³ ② 0.07 mg/m³ ⑤ (as -NCO)
WEL (GB)	carbon dioxide CAS No.: 124-38-9	① 5,000 ppm (9,150 mg/m³) ② 15,000 ppm (27,400 mg/m³)
IOELV (EU)	carbon dioxide CAS No.: 124-38-9	① 5,000 ppm (9,000 mg/m³)

# 8.1.2 Biological limit values

No data available.

#### 8.1.3 DNEL-/PNEC-values

No data available.

## 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaustion at critical locations.

#### 8.2.2 Personal protection equipment







#### **Eve/face protection:**

Eye glasses with side protection (EN 166).

#### Skin protection:

Tested protective gloves must be worn (EN 374).

Suitable material: NBR (Nitrile rubber) Thickness of the glove material  $\geq$  0,5 mm Suitable material: IIR (Butyl rubber) Thickness of the glove material  $\geq$  0,7 mm

Breakthrough time (maximum wearing time): ≥ 480 min

The statement is derived from the properties of the main components. The suitability of the glove material for the handling of the product has not been verified. 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. 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. Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Recommendation: Draw up and observe skin protection programme.

#### Respiratory protection:

Usually no personal respirative protection necessary. Provide adequate ventilation. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device (full mask or mouthpiece) with filter: A/P2

#### Other protection measures:

Wear suitable protective clothing.

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 6/9



# Plastic Adhesive 2C, Componente B

# 8.2.3 Environmental exposure controls

No data available.

#### 8.3 Additional information

No data available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state: liquid Colour: brown

**Odour:** characteristic

## Safety relevant basic data

Parameter		at	Method	Remark
рН	not applicable			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	> 300 °C			
Decomposition temperature	not determined			
Flash point	205 °C			
Evaporation rate	not determined			
Ignition temperature	> 600 °C			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	0.01 Pa			
Vapour density	not applicable			
Density	1.22 g/ml	25 °C		
Bulk density	not applicable			
Water solubility	insoluble			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	1,000 mPa*s			
Kinematic viscosity	not determined			

#### 9.2 Other information

No data available.

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

See section 10.3

# 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Violent reaction with: Oxidising agent, strong; Reducing agent, strong; Acid, concentrated; Alkali (lye), concentrated

# 10.4 Conditions to avoid

Protect from moisture.

# 10.5 Incompatible materials

Oxidizing agent, Reducing agent, Acids, Alkali (lye).

# 10.6 Hazardous decomposition products

In case of fire may be liberated: Isocyanates, Nitrogen oxides (NOx), Carbon oxides (COx).

Possible in traces: Hydrogen cyanide (hydrocyanic acid)

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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 7/9



# Plastic Adhesive 2C, Componente B

#### **Further information**

No data available.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

Harmful if inhaled.

#### Skin corrosion/irritation:

Causes skin irritation.

#### Eye damage/irritation:

Causes serious eye irritation.

## Respiratory or skin sensitisation:

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## Germ cell mutagenicity:

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

## Carcinogenicity:

May cause cancer.

## Reproductive toxicity:

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

#### STOT-single exposure:

May cause respiratory irritation.

# STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

## Aspiration hazard:

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

## Additional information:

No data available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Aquatic toxicity:

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

#### 12.2 Persistence and degradability

# **Biodegradation:**

Poorly biodegradable.

#### 12.3 Bioaccumulative potential

## **Accumulation / Evaluation:**

No indication of bioaccumulation potential.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6 Other adverse effects

No data available.

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

Revision date: 22-Feb-2017 Print date: 22-Feb-2017

**Version:** 1.0 Page 8/9



# Plastic Adhesive 2C, Componente B

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Waste treatment options**

### **Appropriate disposal / Product:**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

# Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal. Do not allow to enter into surface water or drains.

#### 13.2 Additional information

Waste for disposal is to be classified and labelled.

# **SECTION 14: Transport information**

No dangerous good in sense of these transport regulations.

#### 14.1 UN-No.

not relevant

### 14.2 UN proper shipping name

not relevant

## 14.3 Transport hazard class(es)

not relevant

#### 14.4 Packing group

not relevant

#### 14.5 Environmental hazards

not relevant

#### 14.6 Special precautions for user

not relevant

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not relevant

# **Additional information:**

No data available.

# **SECTION 15: Regulatory information**

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

#### 15.1.1 EU legislation

#### Other EU regulations:

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work 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.

## 15.1.2 National regulations

No data available.

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

**Revision date:** 22-Feb-2017 **Print date:** 22-Feb-2017

**Version:** 1.0 Page 9/9



# Plastic Adhesive 2C, Componente B

## 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

## 15.3 Additional information

No data available.

## **SECTION 16: Other information**

#### 16.1 Indication of changes

No data available.

# 16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu

#### 16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): http://www.echa.europa.eu

ECHA, C&L Inventory: http://echa.europa.eu/information-on-chemicals/cl-inventory-database ECHA, Registered substances: http://echa.europa.eu/information-on-chemicals/registered-substances GESTIS (Gefahrstoffinformationssystem der DGUV): http://www.dguv.de/ifa/GESTIS/index.jsp

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

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

## Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation
STOT-repeated exposure (STOT RE 2)	H373: May cause damage to organs through prolonged or repeated exposure.	Calculation
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	Calculation
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation
Acute toxicity (inhalative) (Acute Tox. 4)	H332: Harmful if inhaled.	Calculation
Carcinogenicity (Carc. 2)	H351: Suspected of causing cancer.	Calculation
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	Calculation

## 16.5 Relevant H- and EUH-phrases

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 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.	

#### 16.6 Training advice

No data available.

#### 16.6 Additional information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. 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. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.