# according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2015/830

according to Regulation (EU) 2015/630

Article No.: 2 05601 B0000 epple 5601

 Print date
 11.04.2022
 Revision date 12.01.2022
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Article No. (manufacturer/supplier): 2 05601 B0000 Trade name/designation epple 5601 Adhesive

Adhesive Component B

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

#### Relevant identified uses:

Adhesive for the gluing of most diverse substrates.

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

#### supplier (manufacturer/importer/downstream user/distributor)

E. Epple & Co. GmbH

Hertzstr. 8 Telephone: +49 7032 / 9771-17 71083 Herrenberg Telefax: +49 7032 / 9771-60 www.epple-chemie.de

#### Department responsible for information:

laboratory

E-mail (competent person) labor@epple-chemie.de

1.4. Emergency telephone number

Information center against poisoning Bonn +49 (0) 228 / 19 240 (Advice in German)

#### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Corr. 1B / H314 Skin corrosion/irritation Causes severe skin burns and eye damage.

Eye Dam. 1 / H318 Serious eye damage/eye irritation Causes serious eye damage.

Skin Sens. 1 / H317 Respiratory or skin sensitisation May cause an allergic skin reaction.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

# **Hazard pictograms**





## Danger

#### **Hazard statements**

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

#### **Precautionary statements**

P260 Do not breathe vapour. P280 Wear protective gloves.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

## Hazard components for labelling

Amines, polyethylenepoly-, triethylenetetramine fraction

reaction product: bisphenol-A-(epichlorhydrin) N- (3- (trimethoxysilyl) propyl) ethylenediamine

## Supplemental hazard information

not applicable

## 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

**Description** modified aminic hardener

#### **Hazardous ingredients**

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

EC No.	REACH No.	
CAS No.	Designation	weight-%
Index No.	classification: // Remark	
292-588-2	01-2119487919-13	
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	2,4 - 9,9
	Acute Tox. 4 H302 / Acute Tox. 4 H312 / Skin Corr. 1B H314 / Skin Sens.	
	1 H317 / Aquatic Chronic 3 H412	
217-164-6	01-2119970215-39	
1760-24-3	N- (3- (trimethoxysilyl) propyl) ethylenediamine	0,9 - 2,4
	Acute Tox. 4 H332 / Eye Dam. 1 H318 / Skin Sens. 1 H317	
500-033-5	01-2119456619-26	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin)	0,1 - 0,9
603-074-00-8	Eye Irrit. 2 H319 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Chronic	
	2 H411	
	Specific concentration limit (SCL): Eye Irrit. 2 H319 >= 5 / Skin Irrit. 2	
	H315 >= 5	

#### **Additional information**

Full text of classification: see section 16

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

## .1. Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

## Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

## Unsuitable extinguishing media

strong water jet

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

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Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

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

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

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin, eyes and clothes. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Follow the legal protection and safety regulations.

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

## Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

## Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

## 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## Occupational exposure limit values

not applicable

## DNEL:

4,4'-methylene diphenyl diglycidyl ether

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

DNEL acute dermal, short-term (systemic), Workers: 8,3 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 8,3 mg/kg bw/day

DNEL acute inhalative (systemic), Workers: 12,3 mg/m³

DNEL long-term inhalative (systemic), Workers: 12,3 mg/m³

N- (3- (trimethoxysilyl) propyl) ethylenediamine

EC No. 217-164-6 / CAS No. 1760-24-3

DNEL long-term dermal (systemic), Workers: 5 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 35,5 mg/m<sup>3</sup>

Amines, polyethylenepoly-, triethylenetetramine fraction

EC No. 292-588-2 / CAS No. 90640-67-8

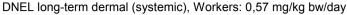
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DNEL acute inhalative (local), Workers: 5380 mg/m³ DNEL long-term inhalative (systemic), Workers: 1 mg/m³

#### PNEC:

4,4'-methylene diphenyl diglycidyl ether

Index No. 603-073-00-2 / EC No. 216-823-5 / CAS No. 1675-54-3

PNEC aquatic, freshwater: 3 µg/L PNEC aquatic, marine water: 0,3 µg/L

PNEC aquatic, intermittent release: 0,013 mg/L PNEC sediment, freshwater: 0,5 mg/kg dw PNEC sediment, marine water: 0,5 mg/kg dw

PNEC, soil: 0,05 mg/kg dw

PNEC sewage treatment plant (STP): 10 mg/L

N- (3- (trimethoxysilyl) propyl) ethylenediamine

EC No. 217-164-6 / CAS No. 1760-24-3 PNEC aquatic, freshwater: 0,062 mg/L PNEC aquatic, marine water: 0,0062 mg/L PNEC aquatic, intermittent release: 0,62 mg/L PNEC sediment, freshwater: 0,22 mg/kg PNEC sediment, marine water: 0,022 mg/kg

PNEC, soil: 0,0085 mg/kg

PNEC sewage treatment plant (STP): 25 mg/L

Amines, polyethylenepoly-, triethylenetetramine fraction

EC No. 292-588-2 / CAS No. 90640-67-8
PNEC aquatic, freshwater: 0,19 mg/L
PNEC aquatic, marine water: 0,038 mg/L
PNEC aquatic, intermittent release: 0,2 mg/L
PNEC sediment, freshwater: 95,9 mg/kg d.w.
PNEC sediment, marine water: 19,2 mg/kg d.w.

PNEC, soil: 19,1 mg/kg d.w.

PNEC sewage treatment plant (STP): 4,25 mg/L

## 8.2. Exposure controls

## Personal protection equipment

#### Respiratory protection

Recommendation: full mask / half mask / filtering half mask. Type A / B class 1/20bserve the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

## **Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

## Eye/face protection

Wear closely fitting protective glasses in case of splashes.

## **Body protection**

## **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

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

## 9.1. Information on basic physical and chemical properties

Appearance:

Appearance: Liquid



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Colour: black

Odour: characteristic
Odour threshold: not applicable
pH at 20 °C: not relevant

Melting point/freezing point: -35 °C

Source: Amines, polyethylenepoly-, triethylenetetramine fraction

Initial boiling point and boiling range: not applicable

Flash point: 175 °C

Evaporation rate: not applicable

flammability

Burning time: not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit:
Upper explosion limit:
vapour pressure at 20 °C:
vapour density:
not applicable
not applicable
not applicable

Relative density:

Density at 20 °C: 1,30 g/cm<sup>3</sup>

Solubility(ies):

Water solubility at 20 °C: insoluble

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature:

Viscosity at °C:

Explosive properties:

Oxidising properties:

see section 12

not applicable

21 - 25 Pa\*s

not applicable

not applicable

9.2. Other information

Solvent separation test: < 3 weight-% (ADR/RID)

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No information available.

#### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

## 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

#### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

## 10.5. Incompatible materials

not applicable

## 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## **SECTION 11: Toxicological information**

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

## 11.1. Information on toxicological effects

#### **Acute toxicity**

4,4'-methylene diphenyl diglycidyl ether oral, LD50, Rat: > 2000 mg/kg dermal, LD50, Rat: > 2000 mg/kg

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Method: OECD 402

dermal, LD50, Rabbit: > 2000 mg/kg

Amines, polyethylenepoly-, triethylenetetramine fraction

oral, LD50, Rat: 1717 mg/kg dermal, LD50, Rat: 1720 mg/kg dermal, LD50, Rabbit: 1465 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; 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.

Practical experience/human evidence

**Overall Assessment on CMR properties** 

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself.

## **SECTION 12: Ecological information**

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

Partition coefficient: n-octanol/water: Mixtures: Not applicable.Do not allow to enter into surface water or drains.

12.1. Toxicity

4,4'-methylene diphenyl diglycidyl ether Fish toxicity, LC50: 1,3 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50: 2,1 mg/L (48 h)

Method: OECD 202

Amines, polyethylenepoly-, triethylenetetramine fraction

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 31,1 mg/L (48 h)

Method: EU C.2

Fish toxicity, EC50, Pimephales promelas (fathead minnow): 330 mg/L (72 h)

Method: OECD 201

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (72 h)

Long-term Ecotoxicity

4,4'-methylene diphenyl diglycidyl ether Daphnia toxicity, NOEC: 0,3 mg/L (21 d)

Method: OECD 211

12.2. Persistence and degradability

4,4'-methylene diphenyl diglycidyl ether

Biodegradation:: 5 % (28 d); Evaluation Not readily biodegradable (according to OECD criteria)

Method: OECD 301F

Biodegradation:: 6 - 12 % (28 d); Evaluation Not readily biodegradable (according to OECD criteria)

Method: OECD 301B

12.3. Bioaccumulative potential

Amines, polyethylenepoly-, triethylenetetramine fraction

Partition coefficient: n-octanol/water: -2,65

**Bioconcentration factor (BCF)** 



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4,4'-methylene diphenyl diglycidyl ether Bioconcentration factor (BCF): 3 - 31

Amines, polyethylenepoly-, triethylenetetramine fraction

Bioconcentration factor (BCF): < 1

## 12.4. Mobility in soil

Toxicological data are not 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 information available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## Appropriate disposal / Product

#### Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

## List of proposed waste codes/waste designations in accordance with EWC

080409\* Waste adhesives and sealants containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

## Appropriate disposal / Package

#### Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## **SECTION 14: Transport information**

## 14.1. UN number

UN 2735

14.2. UN proper shipping name

Land transport (ADR/RID): Amines, liquid, corrosive, n.o.s.

Sea transport (IMDG): AMINES, LIQUID, CORROSIVE, N.O.S.

Air transport (ICAO-TI / IATA-DGR): Amines, liquid, corrosive, n.o.s.

14.3. Transport hazard class(es)

8

14.4. Packing group

Ш

14.5. Environmental hazards

Land transport (ADR/RID) not applicable
Marine pollutant not applicable

# 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

## **Further** information

### Land transport (ADR/RID)

tunnel restriction code E

Sea transport (IMDG)

EmS-No. F-A, S-B

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

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

not applicable

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## **SECTION 15: Regulatory information**

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

#### **EU** legislation

## Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 0

## **National regulations**

#### **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

## Substance/product listed in the following inventories:

AICS no information
DSL no information
IECSC no information
KECI no information
MITI no information
PICCS no information
TSCA no information

## 15.2. Chemical Safety Assessment

## For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.	
292-588-2	Aminos nalvathylananaly triathylanatatramina fraction	01-2119487919-13	
	Amines, polyethylenepoly-, triethylenetetramine fraction	01-2119407919-13	
90640-67-8			
217-164-6	N- (3- (trimethoxysilyl) propyl) ethylenediamine	01-2119970215-39	
1760-24-3			
500-033-5	reaction product: bisphenol-A-(epichlorhydrin)	01-2119456619-26	
25068-38-6			

## **SECTION 16: Other information**

## Full text of classification in section 3:

Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

· · · · ·				
Abbreviations and acronyms				
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
OEL	Occupational Exposure Limit Value			
BLV	Biological Limit Value			
CAS	Chemical Abstracts Service			
CLP	Classification, Labelling and Packaging			
CMR	Carcinogenic, Mutagenic and Reprotoxic			
DIN	German Institute for Standardization / German industrial standard			
DNEL	Derived No-Effect Level			
EAKV	European Waste Catalogue Directive			
EC	Effective Concentration			
EC	European Community			
EN	European Standard			

IATA-DGR International Air Transport Association – Dangerous Goods Regulations
IBC Code International Code for the Construction and Equipment of Ships carrying Da

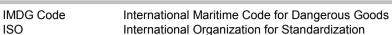
IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk ICAO-TI International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous

Goods by Air

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LC Lethal Concentration

LD Lethal Dose

MARPOL Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

**OECD** Organisation for Economic Cooperation and Development

persistent, bioaccumulative, toxic **PBT** Predicted No Effect Concentration **PNEC** 

Registration, Evaluation, Authorisation and Restriction of Chemicals **REACH** 

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

UN United Nations

VOC Volatile Organic Compounds

vPvB very persistent and very bioaccumulative

## Abbreviations and acronyms

n.a. = not applicable n.b. = not determined

#### **Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.



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