

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

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

#### 1.1 Product identifier

Trade name	:	REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)
Product code	:	08935008

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

Use of the Substance/Mixture	:	Adhesives, Sealant
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#### 1.3 Details of the supplier of the safety data sheet

Company	:	Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau
Telephone	:	+49 794015 0
Telefax	:	+49 794015 10 00
E-mail address of person responsible for the SDS	:	prodsafe@wuerth.com

#### 1.4 Emergency telephone number

Giftnotrufzentrale Berlin +49 30 30686 790. Gesellschaft (07:00 – 18:00 Uhr) +49 794015 2552

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single ex-	H335: May cause respiratory irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTEasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

posure, Category 3

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

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.

Precautionary statements :

#### Prevention:

- P201 Obtain special instructions before use.
- P260 Do not breathe mist or vapours.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P284 Wear respiratory protection.

#### Response:

- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

4,4'-Methylenediphenyl diisocyanate, oligomers  
Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol  
4,4'-Diphenylmethane diisocyanate

#### Additional Labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3 Other hazards

None known.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
4,4'-Methylenediphenyl diisocyanate, oligomers	25686-28-6 500-040-3 01-2119457013-49	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 70 - < 90
Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol	123714-19-2 500-312-1 01-2119457025-44	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 70 - < 90
4,4'-Diphenylmethane diisocyanate	101-68-8 202-966-0 615-005-00-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 0,1 - < 1

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

- Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.

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

- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure.

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

- Treatment : Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : None known.

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

- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion prod- : Carbon oxides

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

ucts

Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

## SECTION 6: Accidental release measures

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

- Personal precautions : Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

### 6.2 Environmental precautions

- Environmental precautions : Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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

- Methods for cleaning up : Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use with local exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Do not breathe vapours or spray mist.  
Do not swallow.  
Do not get in eyes.  
Handle in accordance with good industrial hygiene and safety practice.  
Keep container tightly closed.  
Keep away from water.  
Protect from moisture.  
Take care to prevent spills, waste and minimize release to the environment.
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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

- Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
- Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents
- Storage class (TRGS 510) : 10, Combustible liquids

#### 7.3 Specific end use(s)

- Specific use(s) : No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
4,4'-Diphenylmethane diisocyanate	101-68-8	AGW (Vapour and aerosols)	0,05 mg/m <sup>3</sup>	TRGS 430
Peak-limit: excur-	1;=2=(I)			

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006


**REPLASTEasy PLASTICS ADHESIVE**  
**TRANSPARENT - 50 ML (comp. B)**

Version 3.0      Revision Date: 16.03.2017      SDS Number: 1428683-00001      Date of last issue: 07.10.2014  
 Date of first issue: 11.06.2010

sion factor (category)	
Further information	Sum of vapour and aerosols, The exposure limit is established for monomers. For regulatory details on oligomers and polymers see TRGS 430 'Isocyanate', airway sensitizing substance
	AGW (Vapour and aerosols, inhalable fraction) 0,05 mg/m3 DE TRGS 900
Peak-limit: excursion factor (category)	1;=2=(I)
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Sum of vapor and aerosols., The exposure limit is established for monomers. For regulatory details on oligomers and polymers see TRGS 430 'Isocyanate', Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin and respiratory system

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	Workers	Inhalation	Long-term systemic effects	0,05 mg/m3
	Workers	Inhalation	Acute systemic effects	0,1 mg/m3
	Workers	Inhalation	Long-term local effects	0,05 mg/m3
	Workers	Inhalation	Acute local effects	0,1 mg/m3
	Workers	Skin contact	Acute systemic effects	50 mg/kg bw/day
	Workers	Skin contact	Acute local effects	28,7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,025 mg/m3
	Consumers	Inhalation	Acute systemic effects	0,05 mg/m3
	Consumers	Inhalation	Long-term local effects	0,025 mg/m3
	Consumers	Inhalation	Acute local effects	0,05 mg/m3
	Consumers	Skin contact	Acute systemic effects	25 mg/kg bw/day
	Consumers	Skin contact	Acute local effects	17,2 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	20 mg/kg bw/day
Methylenediphenyl diisocyanate, oligo-	Workers	Inhalation	Long-term systemic effects	0,05 mg/m3

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006


**REPLASTeasy PLASTICS ADHESIVE**  
**TRANSPARENT - 50 ML (comp. B)**
Version  
3.0Revision Date:  
16.03.2017SDS Number:  
1428683-00001Date of last issue: 07.10.2014  
Date of first issue: 11.06.2010

meric reaction products with butanediol, tripropylene glycol and propanediol				
	Workers	Inhalation	Acute systemic effects	0,1 mg/m3
	Workers	Inhalation	Long-term local effects	0,05 mg/m3
	Workers	Inhalation	Acute local effects	0,1 mg/m3
	Workers	Skin contact	Acute systemic effects	50 mg/kg bw/day
	Workers	Skin contact	Acute local effects	28,7 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	0,025 mg/m3
	Consumers	Inhalation	Acute systemic effects	0,05 mg/m3
	Consumers	Inhalation	Long-term local effects	0,025 mg/m3
	Consumers	Inhalation	Acute local effects	0,05 mg/m3
	Consumers	Skin contact	Acute systemic effects	25 mg/kg bw/day
	Consumers	Skin contact	Acute local effects	17,2 mg/cm2
	Consumers	Ingestion	Acute systemic effects	20 mg/kg bw/day
4,4'-Diphenylmethane diisocyanate	Workers	Inhalation	Long-term local effects	0,05 mg/m3
	Workers	Inhalation	Acute local effects	0,1 mg/m3
	Consumers	Inhalation	Long-term local effects	0,025 mg/m3
	Consumers	Inhalation	Acute local effects	0,05 mg/m3

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
4,4'-Methylenediphenyl diisocyanate, oligomers	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	10 mg/l
	Sewage treatment plant	1 mg/l
	Soil	1 mg/kg
Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	10 mg/l
	Sewage treatment plant	1 mg/l
	Soil	1 mg/kg
4,4'-Diphenylmethane diisocyanate	Fresh water	1 mg/l
	Marine water	0,1 mg/l
	Intermittent use/release	10 mg/l
	Sewage treatment plant	1 mg/l



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

	Soil	1 mg/kg
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### 8.2 Exposure controls

#### Engineering measures

Processing may form hazardous compounds (see section 10).  
Minimize workplace exposure concentrations.  
Use with local exhaust ventilation.

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Safety goggles

#### Hand protection

Material : PVC  
Break through time : > 60 min  
Glove thickness : 0,5 mm

Material : Nitrile rubber  
Break through time : > 60 min  
Glove thickness : 0,5 mm

Material : Neoprene  
Break through time : > 60 min  
Glove thickness : 0,5 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapour type (A-P)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light yellow

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTEasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 35 °C
Flash point	:	100 - < 200 °C Other information: Ignitable (see flash point)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	1,15
Density	:	No data available
Solubility(ies) Water solubility	:	Reacts with water.
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Particle size	:	Not applicable
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTEasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.  
Hazardous decomposition products will be formed upon contact with water or humid air.

#### 10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture

#### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents  
Water

#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

##### Acute toxicity

Harmful if inhaled.

##### Product:

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgement

##### Components:

##### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

Acute inhalation toxicity : Acute toxicity estimate: 1,5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Expert judgement  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 9.400 mg/kg  
Remarks: Based on data from similar materials

### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): 0,49 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: Based on data from similar materials

### **4,4'-Diphenylmethane diisocyanate:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 2,24 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Causes skin irritation.

### **Components:**

#### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Skin irritation  
Remarks: Based on data from similar materials

### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

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Result: Skin irritation

### **4,4'-Diphenylmethane diisocyanate:**

Species: Rabbit

Method: OECD Test Guideline 404

Result: Skin irritation

Remarks: Based on data from similar materials

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Components:**

#### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Result: Irritation to eyes, reversing within 7 days

Remarks: Based on data from similar materials

#### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Result: Irritation to eyes, reversing within 7 days

### **4,4'-Diphenylmethane diisocyanate:**

Result: Irritation to eyes, reversing within 7 days

Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

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

### **Components:**

#### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: positive

Remarks: Based on data from similar materials

Assessment: Probability or evidence of skin sensitisation in humans

Exposure routes: Inhalation

Species: Rat

Result: positive

Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

---

Assessment: Probability of respiratory sensitisation in humans based on animal testing

### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Test Type: Local lymph node assay (LLNA)  
Exposure routes: Skin contact  
Species: Mouse  
Result: positive  
Remarks: Based on data from similar materials

Assessment: Probability or evidence of skin sensitisation in humans

Assessment: May cause sensitisation by inhalation.

### **4,4'-Diphenylmethane diisocyanate:**

Test Type: Buehler Test  
Exposure routes: Skin contact  
Species: Guinea pig  
Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Exposure routes: Inhalation  
Species: Rat  
Result: positive  
Remarks: Based on data from similar materials

Assessment: Probability of respiratory sensitisation in humans based on animal testing

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Based on data from similar materials

### **4,4'-Diphenylmethane diisocyanate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 474  
Result: negative

### **Carcinogenicity**

Suspected of causing cancer.

### **Components:**

#### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 2 Years  
Result: positive  
Remarks: Based on data from similar materials

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

#### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

#### **4,4'-Diphenylmethane diisocyanate:**

Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 2 Years  
Result: positive  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTEasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

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Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

### Reproductive toxicity

Not classified based on available information.

### Components:

#### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

#### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Method: OECD Test Guideline 414  
Result: negative  
Remarks: Based on data from similar materials

#### **4,4'-Diphenylmethane diisocyanate:**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Result: negative  
Remarks: Based on data from similar materials

### **STOT - single exposure**

May cause respiratory irritation.

### Components:

#### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Assessment: May cause respiratory irritation.  
Remarks: Based on data from similar materials

#### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Assessment: May cause respiratory irritation.

#### **4,4'-Diphenylmethane diisocyanate:**

Assessment: May cause respiratory irritation.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

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### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Components:

##### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Exposure routes: inhalation (dust/mist/fume)

Target Organs: Respiratory system

Assessment: Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

##### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Exposure routes: inhalation (dust/mist/fume)

Target Organs: Respiratory system

Assessment: Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

##### **4,4'-Diphenylmethane diisocyanate:**

Exposure routes: inhalation (dust/mist/fume)

Target Organs: Respiratory system

Assessment: Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

### Repeated dose toxicity

#### Components:

##### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Species: Rat

NOAEL: 0,2 mg/m<sup>3</sup>

LOAEL: 1 mg/m<sup>3</sup>

Application Route: inhalation (dust/mist/fume)

Exposure time: 2 yr

Remarks: Based on data from similar materials

##### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Species: Rat

NOAEL: 1 mg/m<sup>3</sup>

LOAEL: 5 mg/m<sup>3</sup>

Application Route: inhalation (dust/mist/fume)

Exposure time: 13 Weeks

Remarks: Based on data from similar materials

##### **4,4'-Diphenylmethane diisocyanate:**

Species: Rat

NOAEL: 0,2 mg/m<sup>3</sup>

LOAEL: 1 mg/m<sup>3</sup>

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

Application Route: inhalation (dust/mist/fume)  
Exposure time: 2 yr  
Remarks: Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 1.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 24 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae	: ErC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials  NOEC (Desmodesmus subspicatus (green algae)): 1.640 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms	: EC50 : > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: > 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials

##### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Toxicity to fish	: LL50 : > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 24 h  
Remarks: Based on data from similar materials

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOELR (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 : > 100 mg/l  
Exposure time: 3 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### 4,4'-Diphenylmethane diisocyanate:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 3.000 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 129,7 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 1.640 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 : > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to daphnia and other : NOEC: 10 mg/l

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTEasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### 12.2 Persistence and degradability

#### Components:

##### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302  
Remarks: Based on data from similar materials

##### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

##### **4,4'-Diphenylmethane diisocyanate:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302  
Remarks: Based on data from similar materials

### 12.3 Bioaccumulative potential

#### Components:

##### **4,4'-Methylenediphenyl diisocyanate, oligomers:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 200  
Remarks: Based on data from similar materials

##### **Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol :**

Partition coefficient: n-octanol/water : log Pow: 4,34

##### **4,4'-Diphenylmethane diisocyanate:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 200

Partition coefficient: n-octanol/water : log Pow: 4,51

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- |                        |   |   |
|------------------------|---|---|
| Product                | : | Dispose of in accordance with local regulations.<br>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.<br>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.   |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product.   |
| Waste Code             | : | The following Waste Codes are only suggestions:<br><br>used product<br>080409, waste adhesives and sealants containing organic solvents or other dangerous substances<br><br>unused product<br>080409, waste adhesives and sealants containing organic solvents or other dangerous substances<br><br>uncleaned packagings<br>150110, packaging containing residues of or contaminated by dangerous substances |

## SECTION 14: Transport information

### 14.1 UN number

- |      |   |                                   |
|------|---|-----------------------------------|
| ADN  | : | Not regulated as a dangerous good |
| ADR  | : | Not regulated as a dangerous good |
| RID  | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | UN 3334                           |

### 14.2 UN proper shipping name

- |     |   |                                   |
|-----|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
|-----|---|-----------------------------------|

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTEasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA</b>	:	Aviation regulated liquid, n.o.s. (4,4'-Methylenediphenyl diisocyanate, oligomers, Methylenediphenyl diisocyanate, oligomeric reaction products with butanediol, tripropylene glycol and propanediol )

### 14.3 Transport hazard class(es)

<b>ADN</b>	:	Not regulated as a dangerous good
<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA</b>	:	9

### 14.4 Packing group

<b>ADN</b>	:	Not regulated as a dangerous good
<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good

#### **IATA (Cargo)**

Packing instruction (cargo aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous

#### **IATA (Passenger)**

Packing instruction (passenger aircraft)	:	964
Packing instruction (LQ)	:	Y964
Packing group	:	III
Labels	:	Miscellaneous

### 14.5 Environmental hazards

<b>ADN</b>	:	Not regulated as a dangerous good
<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Remarks	:	Not applicable for product as supplied.
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTeasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : 4,4'-Diphenylmethane diisocyanate (56)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class (Germany) : WGK 1 slightly water endangering  
Classification according VwVwS, Annex 4.

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0 %

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

TRGS 430 (German regulatory requirements)

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

#### Full text of H-Statements

H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## REPLASTEasy PLASTICS ADHESIVE TRANSPARENT - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

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 if inhaled.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Resp. Sens.	: Respiratory sensitisation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
TRGS 430	: Germany. TRGS 430 - Isocyanates
DE TRGS 900 / AGW	: Time Weighted Average
TRGS 430 / AGW	: Occupational Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version	Revision Date:	SDS Number:	Date of last issue: 07.10.2014
3.0	16.03.2017	1428683-00001	Date of first issue: 11.06.2010

for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373

### Classification procedure:

Expert judgement and weight of evidence determination.
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN