

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

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

1.1 Product identifier

Trade name : REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Product code : 08935003

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

Use of the Sub-stance/Mixture : Adhesives

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.
EUH208 Contains Piperazine. May produce an allergic reaction.
EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

None known.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	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)
Piperazine	110-85-0 203-808-3 612-057-00-4	Flam. Sol. 1; H228 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 Repr. 2; H361fd	$\geq 0,1 - < 1$

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.
Get medical attention. |
| In case of skin contact | : In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse. |
| In case of eye contact | : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists. |
| If swallowed | : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water. |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

4.2 Most important symptoms and effects, both acute and delayed

Risks : May produce an allergic reaction.

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 (CO₂)
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 products : Carbon oxides
Nitrogen oxides (NO_x)
Metal oxides
Chlorine compounds
Silicon oxides

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

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.

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 only with adequate ventilation.

Advice on safe handling : Do not get on skin or clothing.
Avoid inhalation of vapour or mist.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep container tightly closed.
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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version 5.2 Revision Date: 16.03.2017 SDS Number: 758682-00003 Date of last issue: 21.09.2016
Date of first issue: 11.06.2010

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Keep tightly closed.
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
Talc	14807-96-6	AGW (Inhalable fraction)	10 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1,25 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values., Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	AGW (Inhalable fraction)	4 mg/m ³ (Silica)	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., Colloidal amorphous silica, including pyrogenic silica and in wet processes manufactured silica (precipitated silica, sili-cagel)., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006


**REPLAST 2C PLASTICS ADHESIVE FAST - 50
ML (comp. B)**

Version 5.2 Revision Date: 16.03.2017 SDS Number: 758682-00003 Date of last issue: 21.09.2016
Date of first issue: 11.06.2010

Piperazine	110-85-0	TWA	0,1 mg/m3	2000/39/EC
Further information	Indicative			
		STEL	0,3 mg/m3	2000/39/EC
Further information	Indicative			
		AGW (Vapour and aerosols)	0,1 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	1;(I)			
Further information	European Union (The EU has established a limit value: deviations in value and peak limit are possible), The reaction with nitrosating agents can lead to the formation of carcinogenic N-nitrosoamine., Sum of vapor and aerosols., A foundation for the derivation of a limit value is not available.			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Poly(PO) Glycerine Ether	Workers	Inhalation	Long-term systemic effects	98 mg/m3
	Workers	Skin contact	Long-term systemic effects	13,9 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	8,3 mg/kg bw/day
Piperazine	Workers	Inhalation	Long-term systemic effects	0,1 mg/m3
	Workers	Inhalation	Acute systemic effects	0,3 mg/m3
	Workers	Inhalation	Long-term local effects	0,3 mg/m3
	Workers	Inhalation	Acute local effects	0,3 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,014 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	0,042 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,5 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Poly(PO) Glycerine Ether	Fresh water	0,2 mg/l
	Marine water	0,02 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	0,52 mg/kg
	Marine sediment	0,052 mg/kg
Piperazine	Soil	0,067 mg/kg
	Fresh water	1,25 mg/l
	Marine water	0,125 mg/l
	Intermittent use/release	1,25 mg/l
	Sewage treatment plant	54 mg/l
	Fresh water sediment	4,5 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

	Marine sediment	0,45 mg/kg
	Soil	11,5 mg/kg
	Oral (Secondary Poisoning)	4,6 mg/kg food

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

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

Hand protection

Material : Nitrile rubber
Break through time : > 20 min
Glove thickness : 0,5 mm

Material : PVC
Break through time : > 20 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 : black
Odour Threshold : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version 5.2	Revision Date: 16.03.2017	SDS Number: 758682-00003	Date of last issue: 21.09.2016 Date of first issue: 11.06.2010
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pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	212 °C Other information: No data available
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	:	ca. 1,225 (25 °C)
Density	:	ca. 1,225 g/cm ³ (25 °C)
Solubility(ies) Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	ca. 20.000 mPa.s (25 °C)
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
Self-ignition	:	No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

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.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

Not classified based on available information.

Components:

Piperazine:

Acute oral toxicity : LD50 (Rat, female): 2.300 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 2 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Skin corrosion/irritation

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

Components:

Piperazine:

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Piperazine:

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Piperazine:

Test Type: Maximisation Test

Exposure routes: Skin contact

Species: Guinea pig

Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

Exposure routes: inhalation (vapour)

Assessment: May cause sensitisation by inhalation.

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

Germ cell mutagenicity

Not classified based on available information.

Components:

Piperazine:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative

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

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

Application Route: Ingestion
Result: negative

Germ cell mutagenicity- Assessment :

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

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Components:

Piperazine:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: positive
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rabbit
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
Some evidence of adverse effects on development, based on animal experiments.
Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Piperazine:

Species: Rat
NOAEL: 627 mg/kg
Application Route: Ingestion
Exposure time: 90 Days

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Piperazine:

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 1.800 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 21 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2.
Toxicity to algae	:	NOEC (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	NOEC : 540 mg/l Exposure time: 30 min
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 25 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

12.2 Persistence and degradability

Components:

Piperazine:

Biodegradability	:	Result: Readily biodegradable. Biodegradation: 65 % Exposure time: 28 d Method: OECD Test Guideline 301F
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12.3 Bioaccumulative potential

Components:

Piperazine:

Partition coefficient: n-octanol/water	:	log Pow: -1,24
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12.4 Mobility in soil

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

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.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
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.
If not otherwise specified: Dispose of as unused product. |
| Waste Code | : The following Waste Codes are only suggestions:

used product
080410, waste adhesives and sealants other than those mentioned in 08 04 09

unused product
080410, waste adhesives and sealants other than those mentioned in 08 04 09

uncleaned packagings
150106, mixed packaging

Acc. Packaging Ordinance properly emptied packaging:
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging. |

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

14.5 Environmental hazards

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.

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) : Not applicable

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:
TRGS 430 (German regulatory requirements)

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

SECTION 16: Other information

Full text of H-Statements

H228	: Flammable solid.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.

Full text of other abbreviations

Eye Dam.	: Serious eye damage
Flam. Sol.	: Flammable solids
Repr.	: Reproductive toxicity
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
DE TRGS 900 / AGW	: Time Weighted Average

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



REPLAST 2C PLASTICS ADHESIVE FAST - 50 ML (comp. B)

Version	Revision Date:	SDS Number:	Date of last issue: 21.09.2016
5.2	16.03.2017	758682-00003	Date of first issue: 11.06.2010

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 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/>

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

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