

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

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

- **1.1 Product identifier**
Easy PUR plus - C
Contains: ethanediol [CAS: 107-21-1], D-Glucopyranose, oligomers, decyloctyl glycosides [CAS: 68515-73-1], 2-[2-(Dimethylamino) ethoxy]ethanol [CAS: 1704-62-7], 1,1,3,3-tetramethylguanidine [CAS: 80-70-6].
- **Trade name: Easy PUR plus - C**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category**
PC32 Polymer preparations and compounds
PC1 Adhesives, sealants
- **Process category**
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC10 Roller application or brushing
- **Environmental release category** ERC2 Formulation into mixture
- **Application of the substance / the mixture**
Accelerator
Activator
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
I.S.T. Innovative Sewer Technologies GmbH
Rombacher Hütte 19
44795 Bochum
Germany
- **Further information obtainable from:**
Mr. Matthias Peppel +49 (0) 234-57988-27
info@ist-web.com
- **1.4 Emergency telephone number:** +49 (0)234 57988-0 (Mo.-Fr. 8:00-16:30)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 1)

Hazard pictograms



GHS05

GHS07

GHS08

Signal word Danger

Hazard-determining components of labelling:

ethanediol
 D-Glucopyranose, oligomers, decyloctyl glycosides
 2-[2-(Dimetyloamino)etoksy]etanol
 1,1,3,3-tetramethylguanidine

Hazard statements

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

- Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 107-21-1 EINECS: 203-473-3 Index number: 603-027-00-1 Reg.nr.: 01-2119456816-28-xxxx	ethanediol ⚠ STOT RE 2, H373 ⚠ Acute Tox. 4, H302	> 50%
CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36	D-Glucopyranose, oligomers, decyloctyl glycosides ⚠ Eye Dam. 1, H318	< 20%
CAS: 80-70-6 EINECS: 201-302-7 Reg.nr.: 01-2120108945-53	1,1,3,3-tetramethylguanidine ⚠ Flam. Liq. 3, H226 ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302	< 5%
CAS: 1704-62-7 EINECS: 216-940-1 Reg.nr.: 01-2119976346-26-0002	2-[2-(Dimetyloamino)etoksy]etanol ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H312	< 5%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

- Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

(Contd. on page 3)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 2)

- **After swallowing:**
Call for a doctor immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
Every person taking part in fire-fighting must wear complete protective clothing: full face mask with breathing apparatus fed from independent air source, safety helmet, a coverall, gloves and shoes made of PVC.
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Mount respiratory protective device.
- **6.2 Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Recommended storage temperature:** +10 to +30 °C (12 months)
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 3)

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 107-21-1 ethanediol

WEL	Short-term value: 104** mg/m ³ , 40** ppm
	Long-term value: 10* 52** mg/m ³ , 20** ppm

· DNELs

CAS: 107-21-1 ethanediol

Dermal	DNEL	53 mg/kg b.w./day (consumers) (long-term exposure, systemic effect)
		106 mg/kg b.w./day (workers) (long-term exposure, systemic effect)
Inhalative	DNEL	7 mg/m ³ (consumers) (long-term exposure, systemic effect)
		35 mg/m ³ (workers) (long-term exposure, systemic effect)

CAS: 68515-73-1 D-Glucopyranose, oligomers, decyloctyl glycosides

Oral	DNEL	>5,000 mg/kg b.w./day (rat)
	DNEL	35.7 mg/kg m.c./dzień (consumers) (long-term exposure, systemic effect)
Dermal	DNEL	357,000 mg/kg (consumers) (long-term exposure, systemic effect)
		>5,000 mg/kg (rat)
		595,000 mg/kg (workers) (long-term exposure, systemic effect)
Inhalative	DNEL	124 mg/m ³ (consumers) (long-term exposure, systemic effect)
		420 mg/m ³ (workers) (long-term exposure, systemic effect)

CAS: 1704-62-7 2-[2-(Dimetyloamino)etoksy]etanol

Dermal	DNEL	0.28 mg/kg b.w./day (consumers) (long-term exposure, systemic effect)
		2.33 mg/kg b.w./day (workers) (long-term exposure, systemic effect)
Inhalative	DNEL	0.085 mg/m ³ (consumers) (long-term exposure, systemic effect)
		1.07 mg/m ³ (workers) (long-term exposure, local effect)

· PNECs

CAS: 107-21-1 ethanediol

PNEC	10 mg/l (intermittent)
	1 mg/l (marine water)
	10 mg/l (fresh water)
	199.5 mg/l (waste treatment plant)
PNEC	1.53 mg/kg (soil)
	3.7 mg/kg (marine water sediment)
	37 mg/kg (fresh water sediment)

CAS: 68515-73-1 D-Glucopyranose, oligomers, decyloctyl glycosides

Oral	PNEC	111.11 mg/kg foods (secondary poisoning)
	PNEC	0.27 mg/l (intermittent)
		0.0176 mg/l (marine water)
		0.176 mg/l (fresh water)
PNEC	560 mg/l (waste treatment plant)	
	0.654 mg/kg (soil)	
	0.152 mg/kg (marine water sediment)	
	1,516 mg/kg (fresh water sediment)	

CAS: 1704-62-7 2-[2-(Dimetyloamino)etoksy]etanol

PNEC	1 mg/l (intermittent)
	0.01 mg/l (marine water)
	0.1 mg/l (fresh water)
	100 mg/l (waste treatment plant)
PNEC	0.02817 mg/kg (soil)
	0.0087 mg/kg (marine water sediment)
	0.08696 mg/kg (fresh water sediment)

· **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 5)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 4)

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Limitation and supervision of exposure into the environment**
There are not any obligations to make regular measurements of emission to environment. Basic rules of machinery and devices exploitation are to be observed.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Colour:	Light brown
Odour:	Characteristic
Odour threshold:	Not determined.
- pH-value at 20 °C: >12
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
- Flash point: 82 °C
- Flammability (solid, gas): Not applicable.
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.
- Vapour pressure: Not determined.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 5)

· Density at 25 °C:	1.12 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 25 °C:	40 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Avoid contacts with strong oxidizing substances.
- **10.2 Chemical stability** The product is stable at room temperature.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Avoid heat sources (sunbeams, heaters and the like) influence.
- **10.5 Incompatible materials:** Strong oxidizers.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	12,500 mg/kg
Dermal	LD50	41,575 mg/kg (rabbit)
Inhalative	LC50/4 h	>3.73 mg/l (rat)

CAS: 107-21-1 ethanediol

Oral	LD50	7,712 mg/kg (rat)
Dermal	LD50	>3,500 mg/kg (mouse)
Inhalative	LC50/4 h	>2.5 mg/l (rat)

CAS: 1704-62-7 2-[2-(Dimetyloamino)etoksy]etanol

Dermal	LD50	1,663 mg/kg (rabbit)
Inhalative	LC50/4 h	>392.2 mg/l (rat)

CAS: 80-70-6 1,1,3,3-tetramethylguanidine

Oral	LD50	500 mg/kg (ATE)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.

(Contd. on page 7)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 6)

- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 107-21-1 ethanediol

EC50/48h (static)	>100 mg/l (daphnia) (OECD 202 Daphnia sp. Acute Immobilisation Test)
EC50/96h	6,500-13,000 mg/l (algae)
LC50/96h	>500 mg/l (fish)

CAS: 68515-73-1 D-Glucopyranose, oligomers, decyloctyl glycosides

EC50/48h (static)	>100 mg/l (daphnia) (92/69/EEC)
EC50/72h (static)	>10 mg/l (water plants) (OECD 201 Growth Inhibition Test)
LC50/96h	>100 mg/l (fish) (OECD 203 Acute Toxicity Test)

CAS: 1704-62-7 2-[2-(Dimetyloamino)etoksy]etanol

ErC50/72h (static)	160 mg/l (algae) (OECD 201 Growth Inhibition Test)
EC50/48h (static)	>100 mg/l (daphnia) (OECD 202 Daphnia sp. Acute Immobilisation Test)
LC50/96h (static)	320 mg/l (fish) (DIN 38412)
NOEC/3h	>1,000 mg/l (bacteria) (OECD 209 Respiration Inhibition Test)
NOECr/72h (static)	40 mg/l (algae) (OECD 209 Respiration Inhibition Test)

· 12.2 Persistence and degradability

biodegradable

CAS: 107-21-1 ethanediol

Easily bio-degradable. 90-100 % (sediment) (10 d)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

· Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· 12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

16 03 05*	organic wastes containing dangerous substances
15 01 10*	packaging containing residues of or contaminated by dangerous substances

· Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

GB

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.04.2018


Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 7)

SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA 	UN2735
<ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA 	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (1,1,3,3-tetramethylguanidine, 2-[2-(Dimetyloamino)etoksy]etanol) AMINES, LIQUID, CORROSIVE, N.O.S. (1,1,3,3-tetramethylguanidine, 2-[2-(Dimetyloamino)etoksy]etanol)
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA 	<div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label
<ul style="list-style-type: none"> · Class · Label 	8 Corrosive substances. 8
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	Not applicable.
<ul style="list-style-type: none"> · 14.6 Special precautions for user · EMS Number: · Segregation groups · Stowage Category · Segregation Code 	Warning: Corrosive substances. F-A,S-B Alkalis A SG35 Stow "separated from" acids.
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · Transport category · Tunnel restriction code 	3 E
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (1,1,3,3-TETRAMETHYLGUANIDINE, 2-[2-(DIMETYLOAMINO)ETOKSY]ETANOL), 8, III, E

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 1. Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 and Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEG, 93/105/EC and 2000 / 21/ WE (Official Gazette. EU L 136 of 29 May 2007).
 2. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Journal of Laws. L 132 of 28 May 2015).
 3. Regulation (EC) No 1272/2008 Of The European Parliament And Of The Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

(Contd. on page 9)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 8)

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H373 May cause damage to organs through prolonged or repeated exposure.

· **Department issuing SDS:** Product safety department.

· **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Corr. 1C: Skin corrosion/irritation – Category 1C
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

GB

(Contd. on page 10)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 24.04.2018

Version number 3

Revision: 17.04.2018

Trade name: Easy PUR plus - C

(Contd. of page 9)

Annex: Exposure scenario

- **Short title of the exposure scenario**
- **Sector of Use**
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category**
 - PC32 Polymer preparations and compounds
 - PC1 Adhesives, sealants
- **Process category**
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC10 Roller application or brushing
- **Environmental release category** ERC2 Formulation into mixture
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**
 - Avoid contact with eyes.
 - Avoid contact with the skin.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** Ensure that suitable extractors are available on processing machines
- **Personal protective measures**
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the skin.
 - Avoid contact with the eyes.
 - Tightly sealed goggles
 - Protective gloves
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Measures for consumer protection**
 - Ensure adequate labelling.
 - Keep locked up and out of the reach of children.
- **Environmental protection measures**
- **Water** Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**
 - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.