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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.05.2022

Version number 10

Revision: 20.05.2022

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

1.1 Product identifier
Trade name: Härter 025
1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

· Application of the substance / the mixture Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: FORBO Eurocol Deutschland GmbH August-Roebling-Str. 2 D-99091 Erfurt Tel.:+49 (0)361 73041-0 Fax: +49 (0)361 73041-92 Website: http://www.forbo-bonding.de

• Further information obtainable from: Laboratory Elisabeth Reinhardt Elisabeth.Reinhardt@forbo.com

• 1.4 Emergency telephone number: GGIZ +49-361-730730 (for Germany)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008			
Acute Tox. 4	H302 Harmful if swallowed.		
Acute Tox. 4	H332 Harmful if inhaled.		
Skin Corr. 1B	H314 Causes severe skin burns and eye damage.		
Skin Sens. 1	H317 May cause an allergic skin reaction.		
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.		
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.		

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



· Signal word Danger

Hazard-determining components of labelling: Benzyl alcohol
3-aminomethyl-3,5,5-trimethylcyclohexylamine
4,4'-methylenebis(cyclohexylamine)
N,N'-bis(3-aminopropyl)ethylenediamine
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)
2,4-bis[(4-aminocyclohexyl)methyl]aniline

2,4,6-tris(dimethylaminomethyl)phenol

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Phenol, s	styrenated
Hazard s	<i>statements</i>
H302+H	332 Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Precauti	onary statements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P.	330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P.	361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
<i>P305+P</i> .	351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
Addition	al information:
EUH071	Corrosive to the respiratory tract.
2.3 Othe	r 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: 100-51-6 EINECS: 202-859-9	Benzyl alcohol	25-<50%
CAS: 1761-71-3 EINECS: 217-168-8	4,4'-methylenebis(cyclohexylamine) ♦ STOT RE 2, H373; ♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Sens. 1B, H317	10-<20%
CAS: 113930-69-1 NLP: 500-302-7	 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine) ♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ♦ Aquatic Chronic 2, H411; ♦ Skin Sens. 1, H317 	10-<20%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine Acute Tox. 3, H331; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1A, H317	10-<20%
CAS: 135108-88-2	2,4-bis[(4-aminocyclohexyl)methyl]aniline STOT RE 2, H373; Skin Corr. 1C, H314; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	5-<10%
CAS: 90-72-2 EINECS: 202-013-9	2,4,6-tris(dimethylaminomethyl)phenol ♦ Skin Corr. 1C, H314; Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Skin Sens. 1B, H317 (Co	≥3-<5%

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CAS: 61788-44-1	Phenol, styrenated	<i>≥</i> 2.5- <i>≤</i> 5%
EINECS: 262-975-0	Aquatic Chronic 2, H411; (1) Skin Irrit. 2, H315; Skin Sens. 1,	1
Reg.nr.: 02-2119629611-43	H317	
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.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:
- Do NOT use solvents or thinners.

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.*
- *After swallowing:* Do not induce vomiting; call for medical help 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. Use fire extinguishing methods suitable to surrounding conditions.

- · 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. In case of fire, the following can be released: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)
- 5.3 Advice for firefighters
- Protective equipment:

Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Keep away from ignition sources.
 Wear protective equipment. Keep unprotected persons away.
 Ensure adequate ventilation
 6.2 Environmental precautions: Do not allow to enter drains/ surface or ground water.
 - Do not allow to penetrate the ground/soil.

Inform respective authorities in case of seepage into water course or sewage system.

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- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation. Dispose contaminated material as waste according to item 13.
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 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 Avoid contact with skin and eyes. Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. 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: Prevent any seepage into the ground.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Recommended storage temperature: $+5 \circ C - +30 \circ C$

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

·DNELS		
100-51-61	Benzyl alcohol	
Dermal	DNEL (worker)	9.5 mg/kg bw/day (worker)
Inhalative	DNEL (worker)	90 mg/m ³ (worker)
113930-69	-1 4,4'-Isopropy reaction prod	lidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, ucts with m-phenylenebis(methylamine)
Dermal	DNEL (worker)	0.14 mg/kg bw/day (worker)
Inhalative	DNEL (worker)	0.493 mg/m ³ (worker)
2855-13-2	3-aminomethyl-	3,5,5-trimethylcyclohexylamine
Inhalative	DNEL (worker)	0.073 mg/m ³ (worker)
135108-88	-2 2,4-bis[(4-am	inocyclohexyl)methyl]aniline
Dermal	DNEL (worker)	6 mg/kg bw/day (worker)
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Trade name: Härter 025

Inhalative	DNEL (worker)	0 2 mg/m³ (worker)
11111011011110		0.2 mg/m (none)

61788-44-1 Phenol, styrenated

DermalDNEL (worker)6.25 mg/kg bw/day (worker)InhalativeDNEL (worker)11.02 mg/m³ (worker)

· PNECs

100-51-6 Benzyl alcohol

PNEC aqua 0.1 mg/l (water)

113930-69-1 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

PNEC aqua 0.001 mg/l (water)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

PNEC aqua 6 mg/l (water)

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

- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals. 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:



Use suitable respiratory protective device in case of insufficient ventilation.

- · Recommended filter device for short term use: Filter A
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- *Material of gloves Butyl rubber, BR*
- Nitrile rubber, NBR Recommended thick
- Recommended thickness of the material: ≥ 0.4 mm Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

with permanent contact: Viton gloves (0.4 mm)Penetration time > 30 min.

• Eye protection:



Tightly sealed goggles

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· Body protection: Protective work clothing

SECTION 9: Physical and chemi	cal properties
• 9.1 Information on basic physical and c. • General Information • Appearance	hemical properties
Form:	Fluid
Colour:	Yellow tint
· Odour:	Amine-like
· pH-value:	Not applicable.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: Undetermined.
· Flash point:	94 °C (DIN EN ISO 3679)
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	Undetermined.
• Decomposition temperature:	Undetermined.
• Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product does not present an explosion hazard.
· Vapour pressure:	Not determined.
Density at 23 °C:	1.02 g/cm ³ (ISO 2811-2)
· Evaporation rate	Not determined.
• Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Undetermined.
· Viscosity: Dynamic at 20 °C:	<100 mPas
· Solvent content: VOC (CE)	44.00 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with acids.
- 10.4 Conditions to avoid Protect from heat and direct sunlight.
- 10.5 Incompatible materials:
- strong oxidizing agents

Reacts with strong acids and alkali.

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· 10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

 11.1 Information 	on	toxicological	effects
• Acute toxicity			

Harmful if swallowed or if inhaled.

LD/LC50	values	relevant	for	classification:
			,	,

ATE (Acute Toxicity Estimates)				
Oral	LD50	941 mg/kg (rat)		
Dormal	1.050	1 055 ma/ka		

Inhalative	LC50/4h	>14.8 mg/l
Dermai		1,755 mg/mg

100-51-61	Benzyl alc	ohol
Oral	1050	1 230 ma/kg (rat

Orai	LD30	1,230 mg/kg (rai)
Dermal	LD50	2,000 mg/kg (rabbit)

Inhalative LC50/4h 11 mg/l (ATE)

1761-71-3 4,4'-methylenebis(cyclohexylamine)

Dermal LD50 2,110 mg/kg (rabbit)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

 Oral
 LD50
 1,030 mg/kg (rat)

 Inhalative
 LC50/4h
 >5.01 mg/l (rat)

135108-88-2 2,4-bis[(4-aminocyclohexyl)methyl]aniline

Oral LD50 500 mg/kg (rat)

61788-44-1 Phenol, styrenated Oral LD50 >2,000 mg/kg (rat)

 $\begin{array}{c} Dermal \\ Dermal \\ LD50 \\ \end{array} > 2,000 \ mg/kg \ (rabbit) \\ \end{array}$

· ATE (Acute toxicity estimates) - REGULATION (EC) No 1272/2008

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Dermal ATE (dermal) 1,100 mg/kg (rat)

Primary irritant effect:

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes severe skin burns and eye damage.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

• Additional toxicological information:

· CMR effects (carcinogenity, 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.

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· 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:

100-51-6 Benzyl alcohol

LC50/96h 460 mg/l (Pimephales promelas)

EC50/48h 360 mg/l (Daphnia magna)

1761-71-3 4,4'-methylenebis(cyclohexylamine)

LC50/96h > 100 mg/l (Leuciscus idus)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

EC50/24h 42 mg/l (Daphnia magna)

LC50/96h 110 mg/l (Leuciscus idus)

EC50/72h 37 mg/l (Scenedesmus suspicatus)

135108-88-2 2,4-bis[(4-aminocyclohexyl)methyl]aniline

LC50/96h 63 mg/l (Poecilia reticulata)

EC50/72h 43.94 mg/l (Desmodesmus subspicatus)

61788-44-1 Phenol, styrenated

LC50/96h 5.6 mg/l (zebrafish (Brachydanio rerio))

EC50/48h 4.6 mg/l (Daphnia magna) (OECD 202)

· 12.2 Persistence and degradability No further relevant information available.

Degree of elimination:

100-51-6 Benzyl alcohol

Biodegradability 92-96 % / 28d (OECD 301C)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Biodegradability 8 % / 28d (OECD 301A)

61788-44-1 Phenol, styrenated

Biodegradability 7 % / 28d (activated sludge)

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· Ecotoxical effects:

· Remark: Harmful to fish

· Behaviour in sewage processing plants:

• Type of test Effective concentration Method Assessment

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

EC50/3h 10.1 mg/l (activated sludge) (OECD 303A)

• Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground.

· 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

Dispose of contents/container in accordance with local/regional/national/international regulations. • **Recommendation** Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN2735
• 14.2 UN proper shipping name • ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, 4,4'-
· IMDG, IATA	methylenebis(cyclohexylamine)) AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, 4,4'- methylenebis(cyclohexylamine))
· 14.3 Transport hazard class(es)	
· ADR	
· Class	8 (C7) Corrosive substances.
· Label	8
· IMDG, IATA	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group · ADR, IMDG, IATA	Ш
 14.5 Environmental hazards: Marine pollutant: 	No
· 14.6 Special precautions for user	Warning: Corrosive substances.
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Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A
Segregation Code	SG35 Stow "separated from" SGG1-acids
14.7 Transport in bulk according to Annex II of	of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.
0	(ISOPHORONEDIAMINE, 4,4
	METHYLENEBIS(CYCLOHEXYLAMINE)), 8, II

SECTION 15: Regulatory information

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

· National regulations:

Harmful to aquatic organisms

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Water hazard class 3 (Self-assessment): extremely hazardous for water.

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed. (94/33/EC)

- Employment restrictions concerning pregnant and lactating women must be observed. (92/85/EC)
- VOC (CE) DIRECTIVE 2004/42/CE (Article 2 Definition 6 / VOC): Cat.A/i/SB < 500 g/l (2010)
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

· Relevant phrases

H302 Harmful if swallowed.

- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.

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H319 Causes serious eye irritation.	
H331 Toxic if inhaled.	
H332 Harmful if inhaled	
H373 May gause damage to organs through prolonged or repeated exposure	
11375 May cause aumage to organs inrough protonged or repeated exposure.	
H400 Very toxic to aquatic life.	
H411 Toxic to aquatic life with long lasting effects.	
H412 Harmful to aquatic life with long lasting effects.	
• Department issuing SDS: Laboratory	
· Contact·	
Elizabeth Deinhaudt	
Elisabeth.Reinhardt@forbo.com	
· Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulati	ions Concerning the
International Transport of Dangerous Goods by Rail)	-
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)	
ICAO: International Civil Aviation Organisation	
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreem	ent 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 (GB REACH)	
PNEC: Predicted No-Effect Concentration (GB REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PB1: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Acute 10x, 4: Acute toxicity – Category 4	
Acture 10x, 5: Acture toxicity – Category 5	
Skin Corr. 15: Skin corrosion/irritation – Category 18	
Skin Corr. 1C: Skin corrosion/irritation – Category IC	
Skin IFTI. 2. Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation - Category 1	
Eye Irru, 2. Serious eye damagereye irruation – Category 2 Skin Sana Li Skin sana in Cataoan I	
Skin Sens 14. Skin sensitisation – Category 14	
okin bens, 1A. okin sensitisation – Category IA Skin Sens, 1R. Skin sensitisation – Category IB	
Shin sens, 19, Shin sensitisution – Cutegory 19 STOT RF 2: Specific target argan trajective (repeated exposure) = Category 2	
$S_1 G_1 R_2 S_1$ operating an exact provide the state of the state o	
Aquate Chronic 1. Hadawaya to the aquate environment - long-term aquate hadre - Category 1 Aquate Chronic 2. Hazardous to the aquate environment - long-term aquate hazard - Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
* Data compared to the previous version altered	
Duna comparea to the previous version anerea.	