Printing date: 03.07.2018



Revision:____

Version number 4

_ 03.07.2018

SECTION 1: Identification	n of the substance/mixture and o	of the company/undertaking
· 1.1 Product identifier		
• Trade name: <u>Pre silver bath VS</u>	60 (2 - 3 g/l Ag)	
Vorversilberung V	/S 60 (2 - 3 g/l Ag)	
• <i>Article number:</i> 86909000 = 2g/l Ag		
86909020 = 3 g/l Ag • 1.2 Relevant identified uses of th Not approved for private consum	he substance or mixture and uses advis vers.	red against
 Application of the substance / th 1.3 Details of the supplier of the Manufacturer/Supplier: 		
Heimerle + Meule GmbH Dennigstrasse 16 D-75179 Pforzheim		
Telefon +49 (0) 7231 940-0 Telefax +49 (0) 7231 940-2199		
www.heimerle-meule.com		
· Further information obtainable	from:	
Abteilung BASU - Bau/Arbeitssic sds@heimerle-meule.com	cherheit/Umwelt	
IATA - 24h Emergency Contact - (Gefahrgut-Notrufnummer) +49 172 739 6970		
· 1.4 Emergency telephone numb	er:	
Vergiftungs-Informations-Zentra	ıle Freiburg, ++49 761 19240 (24 h)	
SECTION 2: Hazards iden	ntification	
• 2.1 Classification of the substan • Classification according to Regu		
GHS06 skull and	crossbones	
\mathbf{V}		

Acute Tox. 2H300 Fatal if swallowed.Acute Tox. 2H310 Fatal in contact with skin.Acute Tox. 2H330 Fatal if inhaled.

(Contd. on page 2)

⁻ GB

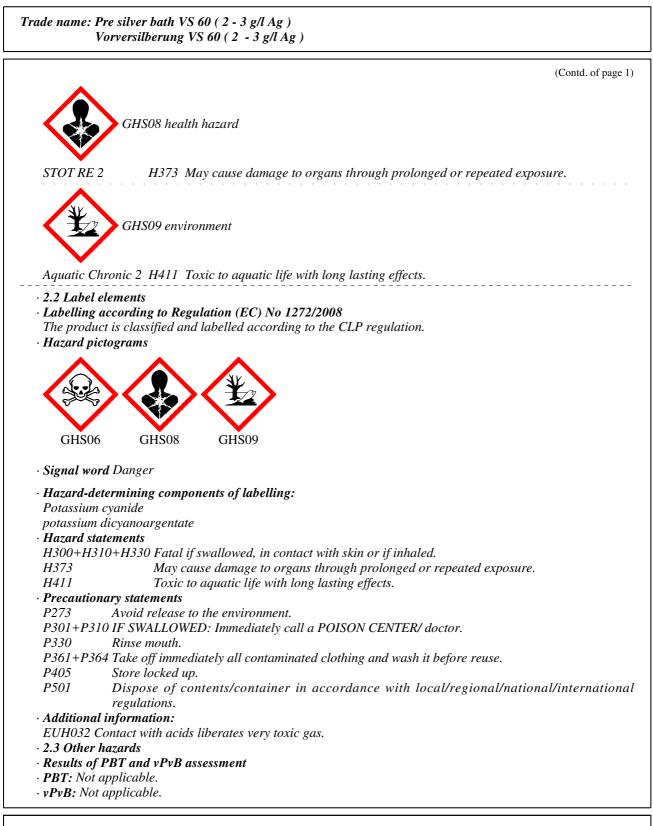


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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

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

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Trade name: Pre silver bath VS 60 (2 - 3 g/l Ag) Vorversilberung VS 60 (2 - 3 g/l Ag)

CAS: 151-50-8	Potassium cyanide	≥7-<10%
EINECS: 205-792-3	Acute Tox. 1, H300; Acute Tox. 1, H310; Acute Tox. 1,	-
Index number: 006-007-00-5	H330	
RTECS: TS 8760000	🚯 STOT RE 1, H372	
Reg.nr.: 01-2119486407-29-xxxx	Met. Corr.1, H290	
-	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 506-61-6	potassium dicyanoargentate	0.25-0.5%
EINECS: 208-047-0	Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2,	1
Index number: 006-007-00-5	H330	
	Eye Dam. 1, H318	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Skin Irrit. 2, H315	

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

SECTION 4: First aid measures

\cdot 4.1 Description of first aid measures

- \cdot General information:
- Immediately remove any clothing soiled by the product.
- Remove breathing equipment only after contaminated clothing have been completely removed.
- In case of irregular breathing or respiratory arrest provide artificial respiration.
- Personal protection for the First Aider.
- Take affected persons out of danger area and lay down.

Involve doctor immediately after a accident or unwell

• After inhalation:

Supply fresh air or oxygen; call for doctor.

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

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
- Rinse out mouth and then drink plenty of water.
- Call a doctor immediately.

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- A person vomiting while laying on their back should be turned onto their side.
- \cdot 4.2 Most important symptoms and effects, both acute and delayed
- Cyanides poisoning
- Cyanosis
- Information for doctor: Cyanides poisoning
- **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
- \cdot 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

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Hydrogen cyanide (HCN) • **5.3 Advice for firefighters**

· Protective equipment:



Wear self-contained respiratory protective device.

• Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Only handle and refill product in closed systems. · 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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). 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

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

he usual precautionary measures are to be adhered to when handling chemicals.

Prevent formation of aerosols.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

· Information about fire - and explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Observe official regulations on storing packagings .

Observe official regulations on storing packagings.

Prevent any seepage into the ground.

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(Contd. of page 4)

- Information about storage in one common storage facility: Do not store together with acids. Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.



Store under lock and key and with access restricted to technical experts or their assistants only.

Store under lock and key and out of the reach of children.

• Storage class: 6.1 B

• 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.

· 8.1 Control parameters		
· Ingredients with limit valu	ies that require monitoring at the workplace:	
CAS: 151-50-8 Potassium	cyanide	
WEL (Great Britain)	Long-term value: 5 mg/m ³ as CN; Sk	
IOELV (European Union)	Short-term value: 5 mg/m ³ Long-term value: 1 mg/m ³ Skin; as cyanide	
AGW (Germany)	Long-term value: 1 E mg/m ³ 5(II);EU, H, Y	
• Additional information: T	he lists valid during the making were used as basis.	
Keep away from foodstuffs Immediately remove all so	gienic measures: leasures are to be adhered to when handling chemicals. , beverages and feed. iled and contaminated clothing	
Wash hands before breaks Store protective clothing so Do not inhale gases / fume According to EC Directive	eparately. s / aerosols.	
• Respiratory protection: In case of brief exposure o use self-contained respirat Beware: Filter masks pro-	r low pollution use respiratory filter device. In case of intensive or longer exposure	
	e for short term use: Combination filter B-P2 (Contd. on page 6)	

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· *pH-value at* $20^{\circ}C$ (68°*F*):

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Trade name: Pre silver bath VS 60 (2 - 3 g/l Ag) Vorversilberung VS 60 (2 - 3 g/l Ag)

		(Contd. of page 6
 Change in condition Melting point/freezing point: Initial boiling point and boiling range: 	Undetermined. 100°C (212°F)	
· Flash point:	Not applicable.	
· 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: Upper:	Not determined. Not determined.	
· Vapour pressure:	Not determined.	
 Density at 20°C (68°F): Relative density Vapour density Evaporation rate 	1.11 g/cm ³ (9.26 lbs/gal) Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with water:	Fully miscible.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
 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 and stored according to specifications.
- 10.3 Possibility of hazardous reactions Contact with acids releases very toxic gases

Reacts with acids, alkalis and oxidising agents.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: Acids
- · 10.6 Hazardous decomposition products: Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

Fatal if swallowed, in contact with skin or if inhaled.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 49.7 mg/kg

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Trade name: Pre silver bath VS 60 (2 - 3 g/l Ag) Vorversilberung VS 60 (2 - 3 g/l Ag)

		(Contd. of page 7)
Dermal	LD50	51.1 mg/kg
Inhalative	LC50/4 h	0.51 mg/l
CAS: 151-	50-8 Potas	sium cyanide
Oral	LD50	5 mg/kg (Rat)
Dermal	LD50	5 mg/kg (ATE)
Inhalative	LC50/4 h	0.05 mg/l (ATE)
CAS: 506-	61-6 potas	sium dicyanoargentate
Oral	LD50	5 mg/kg (ATE)
Dermal	LD50	20.9 mg/kg (Rat)
Inhalative	LC50/4 h	0.5 mg/l (ATE)
· Primary ir	ritant effec	ct:

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· 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.
- · 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: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:
- At present there are no ecotoxicological assessments.

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

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

Also poisonous for fish and plankton in water bodies.

- *Toxic for aquatic organisms*
- · 12.5 Results of PBT and vPvB assessment Not applicable.
- **PBT:** Not applicable.
- **vPvB**: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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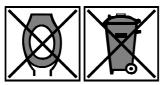
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Trade name: Pre silver bath VS 60 (2 - 3 g/l Ag) Vorversilberung VS 60 (2 - 3 g/l Ag)

(Contd. of page 8)

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.

Contact manufacturer for recycling information.

· Waste disposal key:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

· European waste catalogue

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste

	* *	
	11 00 00	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
	11 01 00	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
	11 01 98*	other wastes containing hazardous substances
Γ	HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
	HP 6	Acute Toxicity
	HP 12	Release of an acute toxic gas
	HP 14	Ecotoxic
_		

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

Packaging which is uncleaned or soiled with product remains is to be treated like the product itself

Packaging free of product remains is to be supplied refuse for recycling. Only if no adequate collecting system is available, they may be disposed of through the domestic rubbish

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number · ADR, IMDG, IATA	UN1935
· 14.2 UN proper shipping name	
ADR	UN1935 CYANIDE SOLUTION, N.O.S. (POTASSIUN
	CYANIDE, potassium dicyanoargentate)
	ENVIRONMENTALLY HAZARDOUS
·IMDG	CYANIDE SOLUTION, N.O.S. (POTASSIUM CYANIDE
	potassium dicyanoargentate), MARINE POLLUTANT
·IATA	CYANIDE SOLUTION, N.O.S. (POTASSIUM CYANIDE
	potassium dicyanoargentate)

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de name: Pre silver bath VS 60 (2 - 3 g/l Vorversilberung VS 60 (2 - 3 g	
	(Contd. of page
14.3 Transport hazard class(es)	
ADR, IMDG	
Class	6.1 Toxic substances.
Label	6.1
Class	6.1 Toxic substances.
Label	6.1
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards:	Product contains environmentally hazardous substance Potassium cyanide
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Toxic substances.
Danger code (Kemler):	60
EMS Number:	F-A,S-A
Segregation groups	Cyanides
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
Segregation Code	SG35 Stow "separated from" acids.
14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	100 ml
Excepted quantities (EQ)	Code: E4
Encepteu quantities (EQ)	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 1 mi Maximum net quantity per outer packaging: 500 ml
Transport category	2
Transport category Tunnel restriction code	Z D/E
IMDG	
Limited quantities (LQ)	100 ml
Excepted quantities (EQ)	Code: E4
-	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
	(Contd. on page



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TATA

(Contd. of page 10)

· IATA · Remarks:	24h Emergency Contact - (Gefahrgut-Notrufnummer)
	+49 172 739 6970
· UN "Model Regulation":	UN 1935 CYANIDE SOLUTION, N.O.S. (POTASSIUM CYANIDE, POTASSIUM DICYANOARGENTATE), 6.1, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

H2 ACUTE TOXIC

E2 Hazardous to the Aquatic Environment

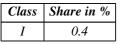
 \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations:

• Technical instructions (air):



• Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

· Other regulations, limitations and prohibitive regulations -

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

· Reasons for revise

If necessary, this saftey data sheet can revised according to legal guidelines.

Our current version for your reference is available on our website www.heimerle-meule.com • Date from last issue : 06.03.2018

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



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Trade name: Pre silver bath VS 60 (2 - 3 g/l Ag) Vorversilberung VS 60 (2 - 3 g/l Ag)

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H290 May be corrosive to metals. H300 Fatal if swallowed. H310 Fatal in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H330 Fatal if inhaled. H320 Eatal if inh		(Contd. of page 1
H290 May be corrosive to metals. H300 Fatal if swallowed. H310 Fatal if swallowed. H310 Fatal if swallowed. H316 Fatal if inhaled. H317 Causes skin irritation. H318 Causes serious eye damage. H310 Fatal if inhaled. H320 Eatal if inhaled. Department issuing SDS: Department issuing SDS: Department BASU - Bau/Arbeitssicherheit/Umwelt sds@heimerle-meule.com	Relevant phrases	
H300 Failal if swallowed. H310 Fatal in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H330 Fatal if inhaled. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Department issuing SDS: Department BASU - Bau/Arbeitssicherheit/Umwelt sds@heimerle-meule.com Contact: Herr Thomas Knuth Herr Thomas Knuth BTD: Reglement-e-meule.com sds@heimerle-meule.com Sds@heimerle-meul		
H310 Fatal in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H330 Fatal if inhaled. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Department issuing SDS: Department BASU - Bau/Arbeitssicherheit/Umwelt sds@heimerle-meule.com Contact: Herr Thomas Knuth Knuth@heimerle-meule.com sds@heimerle-meule.com Mobreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning I hiernational Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning I hiernational Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organisation IMDG: International Martimes Ode for Dangerous Goods IMTA: International Martimes of by the "International Civil Aviation Organisation" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation GHS: Globally Harmonized System of Classification and Labelling of Chemicals ELINCS: European Ist of Notified Chemical Substances ELINCS: Europ		
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 H372 Cause's damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Department issuing SDS: Department BASU - Bau/Arbeitssicherheit/Umwelt sds@heimerle-meule.com . Contact: Herr Thomas Knuth Knuth@heimerle-meule.com sds@heimerle-meule.com Setos		
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* Data compared to the previous version altered.	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
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