

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

Printing date 28.05.2015

Version number 105

Revision: 28.05.2015

*** SECTION 1: Identification of the substance/mixture and of the company/undertaking****- 1.1 Product identifier****- Trade name: Rust-and-lime-ALL-OVER****- Article number: LOS8650****- 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** Cleaning agent / Cleaner**- 1.3 Details of the supplier of the safety data sheet****- Manufacturer/Supplier:**

Euro-Lock Vertriebs-GmbH

Nordweststr. 3

D - 59387 Ascheberg Tel.: +49 (0) 2593 / 95887-0 Fax: +49 (0) 2593 / 95887-29

- Informing department:

Tel.: +49 (0) 2593 / 95887-0

E-Mail: info@euro-lock.de

- 1.4 Emergency telephone number:

Tel.: +49 (0) 2593 / 95887-0

Monday - Thursday from 8.00 a.m. - 5.00 p.m. and Friday from 8.00 a.m. - 1.00 p.m.

SECTION 2: Hazards identification**- 2.1 Classification of the substance or mixture****- Classification according to Regulation (EC) No 1272/2008**

Acute Tox. 3 H311 Toxic in contact with skin.

Met. Corr.1 H290 May be corrosive to metals.

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

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.

- Hazard pictograms

GHS05 GHS06

- Signal word Danger**- Hazard-determining components of labelling:**

alkyl poly ethylene glycol ether

hydrogen fluoride

ammonium chloride

- Hazard statements

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

- Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

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P303+P361+P353 **IF ON SKIN (or hair):** Remove/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.

P310 **Immediately call a POISON CENTER or doctor/physician.**

P304+P340 **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P405 **Store locked up.**

P501 **Dispose of contents/container in accordance with local/regional/national/international regulations.**

-2.3 Other hazards

-Results of PBT and vPvB assessment

-PBT: Not applicable.

-vPvB: Not applicable.

* SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

-Description: Mixture of the substances listed below with harmless additions (aqueous solution).

-Dangerous components:

CAS: 7647-01-0 EINECS: 231-595-7 Reg.nr.: 01-2119484862-27	hydrochloric acid Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335	2.5-10%
CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24	phosphoric acid Met. Corr.1, H290; Skin Corr. 1B, H314	2.5-10%
	alkyl poly ethylene glycol ether Eye Dam. 1, H318; Acute Tox. 4, H302	< 2.5%
CAS: 12125-02-9 EINECS: 235-186-4 Reg.nr.: 01-2119487950-27	ammonium chloride Acute Tox. 4, H302; Eye Irrit. 2, H319	< 2.5%
CAS: 7664-39-3 EINECS: 231-634-8	hydrogen fluoride Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; Skin Corr. 1A, H314	< 2.5%
Polymer	Quaternary fatty amine ethoxylate Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	

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

-Composition/Ingredients

Constituents according to EC-Regulation 648/2004:

- 5 - 15 % phosphates,
- < 5 % non-ionic surfactants,
- < 5 % cationic surfactants,
- perfumes

* SECTION 4: First aid measures

-4.1 Description of first aid measures

-General advice:

Instantly remove any clothing soiled by the product.

Remove breathing apparatus only after soiled clothing has been completely removed.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

Call a doctor in any case! Symptoms of poisoning, skin irritation or pain may even occur after several hours or days.

Note precautions for self-protection of first-aider.

-After inhalation

Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place and transport the patient in a recovery position.

-After skin contact

Instantly rinse with water.

Remove contaminated, saturated clothing immediately (use protective gloves).

Wash off immediately with water. Treat skin with calcium gluconate solution.

Immediate medical treatment necessary.

-After eye contact *Rinse immediately opened eye for several minutes under running water. Then consult doctor.*

-After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

-4.2 Most important symptoms and effects, both acute and delayed *No further relevant information available.*

-Information for doctor

In case of oral ingestion do not use sodium hydrogencarbonate (NaHCO₃) or calcium carbonate (CaCO₃) for neutralization, since developing carbon dioxide may cause perforation of the stomach. Drink suspension of magnesia in water.

-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, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

-5.2 Special hazards arising from the substance or mixture

Reacts with base metals forming readily flammable hydrogen.

Can be released in case of fire:

Hydrogen fluoride (HF)

Nitrogen oxides (NO_x)

-5.3 Advice for firefighters**-Protective equipment:**

See section 8.

Wear full protective suit with self-contained breathing apparatus.

-Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures**-6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Avoid contact with skin, eyes and clothes.

Wear protective equipment and keep unprotected persons away.

-6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

Dilute with much water.

If large amounts are released, the authorities must be informed.

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- 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 of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Residues: rinse away with plenty of water.

- 6.4 Reference to other sections See Section 8 for information on personal protection equipment.

* SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Keep containers tightly sealed.

Open and handle container with care.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires: Keep breathing equipment ready.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage Keep containers tightly closed. Store in cool, dry conditions.

- Requirements to be met by storerooms and containers:

Observe official regulations on storage and handling of water hazardous substances

Store in original containers or in PE-containers.

Unsuitable materials: most metals, glass or ceramic.

- Information about storage in one common storage facility: Store away from foodstuffs.

- Further information about storage conditions: Keep container tightly sealed.

- Storage class 8 B L (VCI - Konzept, 2007)

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

SECTION 8: Exposure controls/personal protection

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

- 8.1 Control parameters

- Components with critical values that require monitoring at the workplace:

7647-01-0 hydrochloric acid (2.5-10%)

WEL	Short-term value: 8 mg/m ³ , 5 ppm Long-term value: 2 mg/m ³ , 1 ppm (gas and aerosol mists)
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7664-38-2 phosphoric acid (2.5-10%)

WEL	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³
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12125-02-9 ammonium chloride (< 2.5%)

WEL	Short-term value: 20 mg/m ³ Long-term value: 10 mg/m ³
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7664-39-3 hydrogen fluoride (< 2.5%)

WEL	Short-term value: 2.5 mg/m ³ , 3 ppm Long-term value: 1.5 mg/m ³ , 1.8 ppm
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- DNELs

7647-01-0 hydrochloric acid

Inhalative	DNEL (worker)	15 mg/m ³ (Acute - local effects)
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		8 mg/m ³ (Long-term - local effects)
7664-38-2 phosphoric acid		
Inhalative	DNEL (population)	0.73 mg/m ³ (Long-term - local effects)
	DNEL (worker)	2.92 mg/m ³ (Long-term - local effects)
12125-02-9 ammonium chloride		
Oral	DNEL (population)	55.2 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	55.2 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	128.9 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	9.4 mg/m ³ (Long-term - systemic effects)
	DNEL (worker)	43.97 mg/m ³ (Long-term - systemic effects)
7664-39-3 hydrogen fluoride		
Oral	DNEL (population)	0.01 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	0.03 mg/m ³ (Long-term - systemic effects)
	DNEL (worker)	1.5 mg/m ³ (Long-term - systemic effects)
- PNECs		
7647-01-0 hydrochloric acid		
PNEC	0.045 mg/l (intermittent releases)	
	0.036 mg/l (fresh water)	
	0.036 mg/l (marine water)	
	0.036 mg/l (STP (sewage treatment plant))	
12125-02-9 ammonium chloride		
PNEC	0.25 mg/l (fresh water)	
	0.025 mg/l (marine water)	
	13.1 mg/l (Kläranlage)	
PNEC sediment	0.9 mg/kg dw (fresh water)	
	0.09 mg/kg (marine water)	
7664-39-3 hydrogen fluoride		
PNEC	11 mg/kg dw (soil)	
	51 mg/l (Kläranlage)	
PNEC aqua	0.9 mg/l (fresh water)	

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- Recommended filter device for short term use:

Combination filter ABE-P3

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Take care of limitations and rules for the use of breathing protection equipment (BGR 190).

- Protection of hands:

Acid resistant gloves

Check the permeability prior to each renewed use of the glove.

- Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

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.

- Penetration time of glove material

Note information regarding permeation rate, penetration times and the degradation supplied by the manufacturer of gloves just as workplace-specific conditions.

Change gloves if notice sign of disenchantment.

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

- Eye protection: Tightly sealed safety glasses.

- Body protection:

Acid resistant protective clothing

Boots

Apron

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

* SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid

Colour: Red

- Smell: Almond-like

- Odour threshold: Not determined

- pH-value (10 g/l) at 20 °C: ca. 1.5

- Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: > 82 °C

- Flash point: Product is non-flammable nor potentially explosive

- Self-inflammability: Product is not selfigniting.

- Danger of explosion: Product is not potentially explosive

- Vapour pressure at 20 °C: 23 hPa

- Density at 20 °C 1.13 g/cm³

- 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

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- Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
- 9.2 Other information	No further relevant information available.

* SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **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 metals forming hydrogen
Reacts with alkali (lyes)
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
metals
Strong bases
- **10.6 Hazardous decomposition products:**
Hydrogen fluoride
Reaction in contact with metal forming hydrogen.

* SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7647-01-0 hydrochloric acid

Oral	LD50	900 mg/kg (rabbit)
Dermal	LD50	> 5010 mg/kg (rabbit)

7664-38-2 phosphoric acid

Oral	LD50	2600 mg/kg (rat, female)
Dermal	LD50	2740 mg/kg (rab)

alkyl poly ethylene glycol ether

Oral	LD50	300-2000 mg/kg (rat)
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12125-02-9 ammonium chloride

Oral	LD50	1410 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

Fluorwasserstoff LC50 1276 ppm/1h (rat)

- **Primary irritant effect:**
- **on the skin:**
Corrosive effect on skin and mucous membranes.
Harmful by inhalation, in contact with skin and if swallowed. Danger by skin resorption. Hydrofluoric acid penetrates the skin and destroys deeper dermal tissues. Skin effects can occur around 1-2 days retarded.
- **on the eye:** Strong caustic effect.
- **Sensitisation:** No sensitizing effect known.

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- Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

*** SECTION 12: Ecological information**

- 12.1 Toxicity

- Aquatic toxicity:

7647-01-0 hydrochloric acid

EC 50	0.23 mg/l (activated sludge (method OECD 209)) (pH 5,2)
EC 50 / 48 h	4.92 mg/l (<i>Daphnia magna</i>)
LC 50 / 96 h	3.25 mg/l (<i>Lepomis macrochirus</i>)

7664-38-2 phosphoric acid

EC 50 / 48 h	> 100 mg/l (<i>Daphnia magna</i>) (OECD 202)
EC 50 / 72 h	> 100 mg/l (<i>Desmodesmus subspicatus</i>) (OECD 201)
LC 50 / 96 h	98-106 mg/l (<i>Lepomis macrochirus</i>)
NOEC / 72 h	100 mg/l (<i>Desmodesmus subspicatus</i>) (OECD 201)

alkyl poly ethylene glycol ether

EC 50 / 48 h	1 - 10 mg/l (<i>Daphnia magna</i>) (OECD TG 202)
EC 50 / 72 h	1 - 10 mg/l (<i>Scenedesmus subspicatus</i>) (OECD TG 201)
LC 50 / 96 h	1 - 10 mg/l (<i>Cyprinus carpio</i>) (OECD TG 203)

12125-02-9 ammonium chloride

EC 50 / 48 h	136.6 mg/l (<i>Daphnia magna</i>)
LC 50 / 96 h	42.91 mg/l (<i>Oncorhynchus mykiss</i>)

- 12.2 Persistence and degradability

The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

alkyl poly ethylene glycol ether

Biolog. Abbaubarkeit	> 70 % (OECD 301A) (28 d)
	> 60 % (OECD 301 B) (28 d)

- 12.3 Bioaccumulative potential No further relevant information available.

- 12.4 Mobility in soil No further relevant information available.

- Ecotoxicological effects:

- Remark: Harmful effect on fish, plankton and other waterorganism by pH shift possible.

- Additional ecological information:

- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow product to reach sewage water or drainage ditch without dilution or neutralization.

- 12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- 12.6 Other adverse effects No further relevant information available.

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* SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

- Recommendation

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

Contact manufacturer for recycling information.

When appropriately used, the product should end up as sewage.

Possible: neutralization of waste water with lime water.

- Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- Uncleaned packagings: Disposal must be made according to official regulations.

- Recommendation:

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

- Recommended cleaning agent: Water, if necessary with cleaning agent.

* SECTION 14: Transport information

- 14.1 UN-Number	
- ADR, IMDG, IATA	UN3264
- 14.2 UN proper shipping name	
- ADR	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)
- IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)
- 14.3 Transport hazard class(es)	
- ADR	
- Class	8 (C1) Corrosive substances.
- Label	8
- IMDG, IATA	
- Class	8 Corrosive substances.
- Label	8
- 14.4 Packing group	
- ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	
- Marine pollutant:	No
- 14.6 Special precautions for user	Warning: Corrosive substances.
- Kemer Number:	80
- EMS Number:	F-A,S-B
- Segregation groups	Acids

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- 14.7 Transport in bulk according to Annex II of MARPOL73/78 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
- 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":	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Information about limitation of use: Employment restrictions concerning young persons must be observed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Application:** Directions for use: please refer to the Technical Information Sheet
- **Relevant phrases**

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

- H290 May be corrosive to metals.
- H300 Fatal if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H335 May cause respiratory irritation.

- **Department issuing data specification sheet:** see item 1: Informing department

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
LEV: Local Exhaust Ventilation
RPE: Respiratory Protective Equipment

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*RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)**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 Harmonized System of Classification and Labelling of Chemicals**CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)**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)**TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**Met. Corr.1: Corrosive to metals, Hazard Category 1**Acute Tox. 2: Acute toxicity, Hazard Category 2**Acute Tox. 4: Acute toxicity, Hazard Category 4**Acute Tox. 1: Acute toxicity, Hazard Category 1**Acute Tox. 3: Acute toxicity, Hazard Category 3**Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A**Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B**Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2**Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1**Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2**STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3***- * Data compared to the previous version altered.**