Carboline

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

- · 1.1 Product identifier
- · Trade name: Thinner 25
- · Article number: 0525
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use

SU3 Industrial uses: use of substances as such or in preparations in an industrial environment

SU22 Professional use: Public domain (administration, education, entertainment, services, craftsmen)

- · Application of the substance / the mixture Thinner, Diluent
- · Uses advised against SU21 Consumer use: Private households / general public / consumers
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

CARBOLINE NORGE AS

Husebysletta 7 P.O. Box 593 - N-3412 Lierstranda

Norway

Phone: +47 32 85 73 00 www.carboline.no

Email: Carboline.norge@carboline.com

- · Further information obtainable from: ehseurope@stoncor.com
- 1.4 Emergency telephone number: CHEMTREC 1-800-424-9300 (Inside US) CHEMTREC +1 703 5273887 (Outside US)

HEALTH - Pittsburgh Poison Control 1-412-681-6669

SECTION 2: Hazards identification

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



Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to the central nervous system, the kidneys and the liver through

prolonged or repeated exposure. Route of exposure: Inhalation.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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







GHS02 G

GHS07

GHS08

Signal word Danger

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· Hazard-determining components of labelling:

Reaction mass of ethylbenzene and xylene

Hydrocarbons, C9, aromatics 2-methoxy-1-methylethyl acetate

· Hazard statements

H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H373 May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated

> exposure. Route of exposure: Inhalation. May be fatal if swallowed and enters airways.

H304 H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

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

P284 In case of inadequate ventilation wear respiratory protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

Additional information:

Restricted to professional users.

· 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 substances listed below with nonhazardous additions.

· Dangerous components %(m/m):

EC number: 905-588-0 Reaction mass of ethylbenzene and xylene 25-50%

♦ Flam. Liq. 3, H226; ♦ STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, Reg.nr.: 01-2119488216-32

H335; Aquatic Chronic 3, H412

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

🗞 Flam. Lig. 3, H226; 🗘 STOT SE 3, H336

Reg.nr.: 01-2119475791-29

EINECS: 203-603-9

EC number: 918-668-5 Hydrocarbons, C9, aromatics ≥20-<25%

25-50%

Reg.nr.: 01-2119455851-35 Consisting of: 71-43-2 benzene (<0.1%)

♦ Flam. Liq. 3, H226; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411;
♦ STOT SE 3, H335-H336, EUH066

CAS: 108-88-3 toluene ≤0.5%

EINECS: 203-625-9 Reg.nr.: 01-2119471310-51

Flam. Liq. 2, H225;
 Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304;
 Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H336; Aquatic Chronic 3,

H412

· 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.

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- · 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.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Contact lens removal.

· After swallowing:

Rinse mouth.

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 or powder. Fight larger fire with alcohol-resistant foam.
- · For safety reasons unsuitable extinguishing agents:

Water spray

Water with full jet

- · 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
- · 5.3 Advice for firefighters
- · Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

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

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 section 13.

Ensure adequate ventilation.

Collect leaking liquid in sealable waste containers.

· 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 No special precautions are necessary if used correctly.
- · Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 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 oxidising agents.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m3, 100 ppm Long-term value: 274 mg/m³, 50 ppm

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm

· DNELs

Reaction mass of ethylbenzene and xylene

Dermal Long-term exposure - systemic effects 180 mg/kg bw/day (worker) Inhalative Acute - short-term exposure - systemic effects 289 mg/m3 (worker)

> Acute - short-term exposure - local effects 289 mg/m3 (worker) Long-term exposure - systemic effects 77 mg/m3 (worker) Long-term exposure - local effects 221 mg/m3 (worker)

108-65-6 2-methoxy-1-methylethyl acetate

Dermal Long-term exposure - systemic effects 796 mg/kg bw/day (worker) Inhalative Long-term exposure - systemic effects 275 mg/m3 (worker)

Hydrocarbons, C9, aromatics

Dermal Long-term exposure - systemic effects 25 mg/kg bw/day (worker) Inhalative Long-term exposure - systemic effects 150 mg/m3 (worker)

108-88-3 toluene

Dermal Long-term exposure - systemic effects 384 mg/kg bw/day (worker)

Inhalative Acute - short-term exposure - systemic effects 384 mg/m3 (worker) Acute - short-term exposure - local effects 384 mg/m3 (worker) Long-term exposure - systemic effects 192 mg/m3 (worker) Long-term exposure - local effects 192 mg/m3 (worker)

·PNECs

Reaction mass of ethylbenzene and xylene

PNEC 12.64 mg/kg (sediment marine water)

12.64 mg/kg (sediment freshwater)

2.31 mg/kg (soil)

PNEC 6.58 mg/l (STP)

0.327 mg/l (aqua, freshwater) 0.327 mg/l (aqua, marine water)

108-65-6 2-methoxy-1-methylethyl acetate

PNEC 0.329 mg/kg (sediment marine water)

3.29 mg/kg (sediment freshwater)

0.29 mg/kg (soil)

PNEC 100 mg/l (STP)

6.35 mg/l (aqua, intermittent releases)

0.064 mg/l (aqua, marine water)

0.635 mg/l (aqua freshwater)

108-88-3 toluene

PNEC 16.39 mg/kg (sediment marine water)

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PNEC 13.61 mg/l (STP)

0.68 mg/l (aqua, freshwater)

0.68 mg/l (aqua, intermittent releases)

0.68 mg/l (agua, marine water)

- · Ingredients with biological limit values:
- · Additional Occupational Exposure Limit Values for possible hazards during processing:

1330-20-7 xylene

WEL Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm

Sk; BMGV

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls Ensure adequate ventilation.
- · Individual protection measures, such as 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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Respiratory protection:

Short term filter device:

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.

Filter type A.

If workers are exposed to concentrations above the exposure limit, they should use a suitable, certified respirator.

· Hand protection



Protective gloves

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

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

· Material of gloves

Suitable material for safety gloves (EN 374):

Fluorocarbon rubber gloves (Viton)

· Penetration time of glove material

Thickness of gloves ≥ 0.4 mm (xylene)

Value for the permeation > 480 min (xylenes)

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

· Eye/face protection



Tightly sealed goggles

- Body protection: Solvent resistant protective clothing
- · Environmental exposure controls No additional data. See 6 and 13.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Physical state

Fluid

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· Colour: Clear · Odour: Pungent · Odour threshold: Not determined. · Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling range ≥136-≤145 °C (Reaction mass of ethylbenzene and xylene)

 Flammability Flammable.

· Lower and upper explosion limit

· Lower: ≥0.7 Vol % (Hydrocarbons, C9, aromatics)

· Upper: ≤10.8 Vol % (108-65-6 2-methoxy-1-methylethyl acetate)

· Flash point: 34 °C Auto-ignition temperature: 315 °C · Decomposition temperature:

Not determined. · pH Not determined.

· Viscosity:

 Kinematic viscosity Not determined.

· Dynamic at 20 °C: 1 mPas

Solubility

· water: Slightly soluble. · Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: ≤8 hPa (Reaction mass of ethylbenzene and xylene)

Density and/or relative density

· Density at 20 °C: 0.9 g/cm³ Relative density Not determined. Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

· Important information on protection of health and

environment, and on safety.

· Ignition temperature: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/

vapour mixtures are possible.

· Solvent content:

· Organic solvents: 100.0 % · VOC (EC) 900.0 g/l 100.00% · Solids content: 0.0 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

 Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void

· Flammable liquids Flammable liquid and vapour.

· Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void

· Substances and mixtures, which emit flammable

gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void

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· Desensitised explosives

Void

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 oxidising agents.

Reacts with strong oxidizing agents.

- · 10.4 Conditions to avoid High temperatures
- · 10.5 Incompatible materials: Strong oxidising products.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

108-65-6 2-methoxy-1-methylethyl acetate

Oral LD50 >5,000 mg/kg (rat)
Dermal LD50 >5,000 mg/kg (rabbit)

Hydrocarbons, C9, aromatics

Oral LD50 3,492 mg/kg (rat) (OESO 401)

Dermal LD50 >3,160 mg/kg (rabbit) (OESO 402)

Inhalative LC50/4h >6,193 mg/m3 (rat) (OESO 403)

108-88-3 toluene

Oral LD50 5,580 mg/kg (rat)
Dermal LD50 >5,000 mg/kg (rabbit)

Inhalative LC50/4h 20 mg/l (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.
- · STOT-repeated exposure

May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.

- · Aspiration hazard May be fatal if swallowed and enters airways.
- · Additional toxicological information:
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 1330-20-7 Xylenes

IARC Group 3 - Not be classified in terms of carcinogenicity for humans.

- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

Reaction mass of ethylbenzene and xylene

ErC50/72h 4.9 mg/l (pseudokirchneriella subcapitata) (OECD 201)

EC50/48h >3.4 mg/l (Ceriodaphnia dubia) EC50/73h 2.2 mg/l (algae) (OECD 201)

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LC50/96h 2.6 mg/l (oncorhynchus mykiss)

13.4 mg/l (pimphales promelas)

LC50/24h 1 mg/l (daphnia magna) (OECD 202)

108-65-6 2-methoxy-1-methylethyl acetate

EC50/48h (static) >500 mg/l (daphnia magna) LC50/96h 134 mg/l (oncorhynchus mykiss)

Hydrocarbons, C9, aromatics

LL50/96h 9.2 mg/l (oncorhynchus mykiss) (OESO 203)

108-88-3 toluene

NOEC/72h 10 mg/l (Skeletonema costatum) EC50/3h 134 mg/l (Chlorella vulgaris) EC50/48h 3.78 mg/l (daphnia magna)

EC50/72h 12.5 mg/l (algae)

LC50/96h 5.5 mg/l (Oncorhynchus kisutch)

5.5 mg/l (fish)

- · 12.2 Persistence and degradability No further relevant information available.
- · Degree of elimination:

Reaction mass of ethylbenzene and xylene

BOD/28d 90 % (/)

108-65-6 2-methoxy-1-methylethyl acetate

BOD/28d 83 % (/) (OECD 301 F)

Hydrocarbons, C9, aromatics

BOD/28d 78 % (/)

· 12.3 Bioaccumulative potential

Reaction mass of ethylbenzene and xylene

LogPow 3.12-3.2 (/)

108-65-6 2-methoxy-1-methylethyl acetate

BCF <100 (/) LogPow 1.2 (/)

108-88-3 toluene

BCF 90 (/) LoaPow 2.73 (/)

- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

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

Harmful to aquatic organisms

— GВ —

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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.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR/ADN, IMDG, IATA UN1263

· 14.2 UN proper shipping name

· ADR/ADN 1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL

· 14.3 Transport hazard class(es)

· ADR/ADN, IMDG, IATA



· Class 3 Flammable liquids.

· Label 3

· 14.4 Packing group

· ADR/ADN, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant:

· 14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code):
 EMS Number:
 Stowage Category

30
F-E,S-E
A

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR/ADN

Limited quantities (LQ)Excepted quantities (EQ)Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· Transport category 3
· Tunnel restriction code D/E

·IMDG

Limited quantities (LQ)Excepted quantities (EQ)5LCode: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL, 3, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- Regulated explosives precursors

None of the ingredients is listed.

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· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · 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
- · National regulations:
- · Other regulations, limitations and prohibitive regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

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.

· Relevant phrases

Highly flammable liquid and vapour. H225

H226 Flammable liquid and vapour.

May be fatal if swallowed and enters airways. H304

Harmful in contact with skin. H312

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

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

Toxic to aquatic life with long lasting effects. H411

Harmful to aquatic life with long lasting effects. H412

EUH066 Repeated exposure may cause skin dryness or cracking.

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

ADR: Accord relatif au transport international 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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aguatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 $\,^\star$ * Data compared to the previous version altered.

- GB —