

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

- 1.1 Product identifier
- Trade name: **Thinner 2**
- Article number: 0522
- 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



GHS02 flame

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
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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.



GHS07

Acute Tox. 4	H312	Harmful in contact with skin.
Acute Tox. 4	H332	Harmful if inhaled.
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.

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Trade name: **Thinner 2**

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## · Hazard pictograms



## · Signal word Danger

## · Hazard-determining components of labelling:

Reaction mass of ethylbenzene and xylene  
butanone

## · Hazard statements

H225 Highly flammable liquid and vapour.

H312+H332 Harmful in contact with skin or if inhaled.

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.

H304 May be fatal if swallowed and enters airways.

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.

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      75-100%

Reg.nr.: 01-2119488216-32      ⚠ 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, H335; Aquatic Chronic 3, H412

CAS: 78-93-3      butanone      ≥20-≤25%

EINECS: 201-159-0      ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066

Reg.nr.: 01-2119457290-43

CAS: 108-88-3      toluene      ≤0.5%

EINECS: 203-625-9      ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304;

Reg.nr.: 01-2119471310-51      ⚠ 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.

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**SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information:  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation:  
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:  
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: CO<sub>2</sub> or powder. Fight larger fire with alcohol-resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment: 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 Ensure good ventilation/exhaustion at the workplace.
- 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 in a cool location.  
Store only in the original receptacle.

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- 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.

## SECTION 8: Exposure controls/personal protection

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

### 78-93-3 butanone

WEL Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
 Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
 Sk, BMGV

### 108-88-3 toluene

WEL Short-term value: 384 mg/m<sup>3</sup>, 100 ppm  
 Long-term value: 191 mg/m<sup>3</sup>, 50 ppm  
 Sk

- 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/m <sup>3</sup> (worker)
	Acute - short-term exposure - local effects	289 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	77 mg/m <sup>3</sup> (worker)
	Long-term exposure - local effects	221 mg/m <sup>3</sup> (worker)

### 78-93-3 butanone

Dermal	Long-term exposure - systemic effects	1,161 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	600 mg/m <sup>3</sup> (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/m <sup>3</sup> (worker)
	Acute - short-term exposure - local effects	384 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	192 mg/m <sup>3</sup> (worker)
	Long-term exposure - local effects	192 mg/m <sup>3</sup> (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)

### 78-93-3 butanone

PNEC 284.7 mg/kg (sediment marine water)  
 284.74 mg/kg (sediment freshwater)  
 22.5 mg/kg (soil)  
 PNEC 709 mg/l (STP)  
 55.8 mg/l (aqua, freshwater)  
 55.8 mg/l (aqua, marine water)

### 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 (aqua, marine water)

· Ingredients with biological limit values:

**78-93-3 butanone**

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

· Additional Occupational Exposure Limit Values for possible hazards during processing:

**1330-20-7 xylene**WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppmLong-term value: 220 mg/m<sup>3</sup>, 50 ppm

Sk; BMGV

**100-41-4 ethylbenzene**WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppmLong-term value: 441 mg/m<sup>3</sup>, 100 ppm

Sk

· 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

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· 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
· Colour:	Clear
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	≥80 °C (78-93-3 butanone)
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	≥1.1 Vol % (Reaction mass of ethylbenzene and xylene)
· Upper:	≤11.5 Vol % (78-93-3 butanone)
· Flash point:	7 °C
· Auto-ignition temperature:	>432 °C (Reaction mass of ethylbenzene and xylene)
· 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:	≤105 hPa (78-93-3 butanone)
· Density and/or relative density	
· Density at 20 °C:	0.85 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.

#### · 9.2 Other information

· Appearance:	
· Form:	Fluid
· 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)	850.0 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	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void

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• 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
• 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 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 Harmful in contact with skin or if inhaled.
- LD/LC50 values relevant for classification:

### 78-93-3 butanone

Oral LD50 3,460 mg/kg (rat) (OECD 423)  
 Dermal LD50 5,000 mg/kg (rabbit) (OECD 402)  
 Inhalative LC50/4h 34 mg/l (rat)

### 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.
- 11.2 Information on other hazards
- Endocrine disrupting properties

78-93-3 butanone: List II

## 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)  
 LC50/96h 2.6 mg/l (oncorhynchus mykiss)  
 13.4 mg/l (pimphales promelas)

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

**78-93-3 butanone**

EC50/48h 308 mg/l (daphnia magna) (OESO 202)

EC50/72h 2,029 mg/l (pseudokirchneriella subcapitata) (OESO 201)

LC50/96h (static) 2,993 mg/l (pimphales promelas) (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 % (/)

**78-93-3 butanone**

BOD/28d 98 % (/)

- 12.3 Bioaccumulative potential

**Reaction mass of ethylbenzene and xylene**

LogPow 3.12-3.2 (/)

**78-93-3 butanone**

LogPow 0.3 (/)

**108-88-3 toluene**

BCF 90 (/)

LogPow 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 For information on endocrine disrupting properties see section 11.
- 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

## 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

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# Safety data sheet according to UK REACH

Trade name: **Thinner 2**

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- 14.2 UN proper shipping name
- ADR/ADN
- IMDG, IATA
- 14.3 Transport hazard class(es)
- ADR/ADN, IMDG, IATA

1263 PAINT RELATED MATERIAL  
PAINT RELATED MATERIAL



- Class 3 Flammable liquids.
- Label 3
- 14.4 Packing group II
- ADR/ADN, IMDG, IATA II
- 14.5 Environmental hazards: No
- Marine pollutant: No
- 14.6 Special precautions for user Warning: Flammable liquids.
- Hazard identification number (Kemler code): 33
- EMS Number: F-E, S-E
- Stowage Category B
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

- ADR/ADN
- Limited quantities (LQ) 5L
- 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 D/E

- IMDG
- Limited quantities (LQ) 5L
- 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 1263 PAINT RELATED MATERIAL, 3, II

## 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.
- 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

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# Safety data sheet according to UK REACH



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Revision: 07.03.2025

Trade name: **Thinner 2**

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- 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
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.
  - H312 Harmful in contact with skin.
  - 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.
  - H412 Harmful to aquatic life with long lasting effects.
  - EUH066 Repeated exposure may cause skin dryness or cracking.
- Department issuing SDS: Product safety department.
- Abbreviations and acronyms:
  - 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
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- \* Data compared to the previous version altered.

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