

Safety Data Sheet
acc. to OSHA HCS

Printing date 02/16/2021

Reviewed on 02/16/2021

1 Identification

- Product identifier
- Trade name: Epifanes Epoxythinner D-601
- Application of the substance / the mixture
See our technical datasheet for application of this product.
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
W.Heeren & Zoon bv.
P.O. box 166
1430 AD Aalsmeer
Netherlands
tel.+31 297-360666
fax.+31 297-342078
email:info@epifanes.nl
- Information department: Research & Development.
- Emergency telephone number:
Emergency Phone Number (24 hours) CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

- Classification of the substance or mixture



GHS02 Flame

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



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged
or repeated exposure.

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



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- Label elements
- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

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· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

Xylene
4-methylpentan-2-one
ethylbenzene
toluene

· Hazard statements

H225 Highly flammable liquid and vapor.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

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vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Solvent mixture

Dangerous components:

CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4	4-methylpentan-2-one <ul style="list-style-type: none">  Flam. Liq. 2, H225  Carc. 2, H351  Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335 	25-50%
CAS: 1330-20-7 EINECS: 215-535-7	Xylene <ul style="list-style-type: none">  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. 2A, H319; STOT SE 3, H335 	25-50%
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol <ul style="list-style-type: none">  Flam. Liq. 3, H226  STOT SE 3, H336 	10-25%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4	ethylbenzene <ul style="list-style-type: none">  Flam. Liq. 2, H225  Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304  Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335 	≤2.5%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- Description of first aid measures
- General information:
Take affected persons out into the fresh air.
Do not leave affected persons unattended.
Seek medical treatment.
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.
Immediately rinse with water.

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- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
Rinse out mouth and then drink plenty of water.
Try not to vomit. Swallow activated carbon and sodium sulphate.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed
No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- Protective equipment:
Wear fully protective suit.
Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
Keep away from ignition sources
Ensure adequate ventilation
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
- 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.
- 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.
- Protective Action Criteria for Chemicals

· PAC-1:

108-10-1 4-methylpentan-2-one

75 ppm

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107-98-2	1-methoxy-2-propanol	100 ppm
100-41-4	ethylbenzene	33 ppm
108-88-3	toluene	67 ppm
· PAC-2:		
108-10-1	4-methylpentan-2-one	500 ppm
107-98-2	1-methoxy-2-propanol	160 ppm
100-41-4	ethylbenzene	1100* ppm
108-88-3	toluene	560 ppm
· PAC-3:		
108-10-1	4-methylpentan-2-one	3000* ppm
107-98-2	1-methoxy-2-propanol	660 ppm
100-41-4	ethylbenzene	1800* ppm
108-88-3	toluene	3700* ppm

7 Handling and storage

- Handling:
 - Precautions for safe handling
Use only in well ventilated areas.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
 - Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
 - Conditions for safe storage, including any incompatibilities
 - Storage:
 - Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
Store in a cool location.
 - Information about storage in one common storage facility:
Store away from flammable substances.
 - Further information about storage conditions:
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
 - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

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

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· Control parameters

· Components with limit values that require monitoring at the workplace:

108-10-1 4-methylpentan-2-one

PEL	Long-term value: 410 mg/m ³ , 100 ppm
REL	Short-term value: 300 mg/m ³ , 75 ppm Long-term value: 205 mg/m ³ , 50 ppm
TLV	Short-term value: 307 mg/m ³ , 75 ppm Long-term value: 82 mg/m ³ , 20 ppm BEI

1330-20-7 Xylene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 369 mg/m ³ , 100 ppm Long-term value: 184 mg/m ³ , 50 ppm

100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI

108-10-1 4-methylpentan-2-one

PEL	Long-term value: 410 mg/m ³ , 100 ppm
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107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
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TLV	Short-term value: 369 mg/m ³ , 100 ppm Long-term value: 184 mg/m ³ , 50 ppm
100-41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 87 mg/m ³ , 20 ppm BEI

- Regulatory information
PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)

- Ingredients with biological limit values:

108-10-1 4-methylpentan-2-one

BEI	1 mg/L Medium: urine Time: end of shift Parameter: MIBK
-----	--

100-41-4 ethylbenzene

BEI	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

- Additional information:
The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Do not eat, drink, smoke or sniff while working.
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.
- Breathing equipment:
Suitable respiratory protective device recommended.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Filter AX

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· Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

· For the permanent contact gloves made of the following materials are suitable: Butyl rubber, glove thickness 0.7 mm, > 480 min breakthrough time / permeation to EN374.

· As protection from splashes gloves made of the following materials are suitable:

Nitrile

Glove thickness > 0.45 mm, breakthrough time > 30 min. to EN374

· Eye protection:



Tightly sealed goggles

· Body protection: Use protective suit.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

Color: Clear

· Odor: Characteristic

· Odor threshold: Not determined.

· pH-value at 20 °C (68 °F): n.v.t.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: >125 °C (>257 °F)

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· Flash point:	16 °C (60.8 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	270 °C (518 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.7 Vol %
Upper:	20 Vol %
· Vapor pressure at 20 °C (68 °F):	12 hPa (9 mm Hg)
· Density at 20 °C (68 °F):	0.85 g/cm ³ (7.09325 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water at 20 °C (68 °F):	> 20 g/l
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C (68 °F):	0.9 mm ² /s
· Solvent content:	
Organic solvents:	100.0 %
VOC content:	100.00 %
	VOC content: 850.0 g/l / 7.09 lb/gal
· Other information	No further relevant information available.

10 Stability and reactivity

- Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
Flammable gases/vapors
Aldehyde

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Carbon monoxide and carbon dioxide

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

- LD/LC50 values that are relevant for classification:

108-10-1 4-methylpentan-2-one

Oral	LD50	2080 mg/kg bw (rat)
Dermal	LD50	16000 mg/kg bw (rab)
Inhalative	LC50/4 h	8.3-16.6 mg/l (rat)

107-98-2 1-methoxy-2-propanol

Oral	LD50	5660 mg/kg bw (rat)
Dermal	LD50	13000 mg/kg bw (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

100-41-4 ethylbenzene

Oral	LD50	3500 mg/kg bw (rat)
Dermal	LD50	17800 mg/kg bw (rabbit)

- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant
- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

108-10-1	4-methylpentan-2-one	2B
100-41-4	ethylbenzene	2B
108-88-3	toluene	3

- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Other information: The product is biodegradable.

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- Behavior in environmental systems:
- Bioaccumulative potential Non significant accumulation in organisms
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class 2 (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.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
 - DOT, ADR, IMDG, IATA
 - UN proper shipping name
 - DOT
 - ADR
 - IMDG
 - IATA
 - Transport hazard class(es)
 - DOT
 - Class
 - Label
- | | |
|--|--|
| | UN1263 |
| | CONSUMER COMMODITY, ORM-D
Paint |
| | 1263 PAINT (vapour pressure at 50°C not more than 110 kPa) |
| | CONSUMER COMMODITY, ORM-D
PAINT |
| | PAINT |
| | |
| | |
| | 3 Flammable liquids |
| | 3 |



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· ADR



· Class 3 (F1) Flammable liquids
· Label 3

· IMDG, IATA



· Class 3 Flammable liquids
· Label 3

· Packing group II
· DOT, ADR, IMDG, IATA

· Environmental hazards:
· Marine pollutant: No

· Special precautions for user Warning: Flammable liquids
· Hazard identification number (Kemler code): 33
· EMS Number: F-E, S-E
· Stowage Category B

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT
· Quantity limitations On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L
· Remarks: CERCLA/DOT RQ: 617gal./4786 lbs.

· ADR

· 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) 5L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

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· UN "Model Regulation": UN 1263 PAINT (VAPOUR PRESSURE AT 50°C NOT MORE THAN 110 KPA), 3, II

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):
None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

108-10-1	4-methylpentan-2-one
100-41-4	ethylbenzene
108-88-3	toluene

· TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

· Hazardous Air Pollutants

108-10-1	4-methylpentan-2-one
1330-20-7	Xylene
100-41-4	ethylbenzene
108-88-3	toluene

· Proposition 65

· Chemicals known to cause cancer:

108-10-1	4-methylpentan-2-one
100-41-4	ethylbenzene

· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-10-1	4-methylpentan-2-one
108-88-3	toluene

· Cancerogenity categories

· EPA (Environmental Protection Agency)

108-10-1	4-methylpentan-2-one	I
100-41-4	ethylbenzene	D
108-88-3	toluene	II

· TLV (Threshold Limit Value)

100-41-4	ethylbenzene	A3
108-88-3	toluene	A4

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· MAK (German Maximum Workplace Concentration)		
100-41-4	ethylbenzene	3A

· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		

- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms



- Signal word Danger
- Hazard-determining components of labeling:
Xylene
4-methylpentan-2-one
ethylbenzene
toluene
- Hazard statements
H225 Highly flammable liquid and vapor.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to the hearing organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
- Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- National regulations:
- Technical instructions (air):

Class	Share in %
NK	50-100

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- Water hazard class:
Water hazard class 2 (Self-assessment): hazardous for water.
- Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

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.

- Contact:
- Date of preparation / last revision 02/16/2021 / 4
- 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
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
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. 2A: Serious eye damage/eye irritation - Category 2A
Carc. 2: Carcinogenicity - 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
- * Data compared to the previous version altered.