



**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 05/07/2025

Reviewed on 05/07/2025

## 1 Identification

· **Product identifier**

· **Trade name:** dima Print Stone beige Smart

· -

· **Application of the substance / the mixture** *Printing inks*

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522

· **Information department:**

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545

e-mail: [customer.servicehkna@kulzer-dental.com](mailto:customer.servicehkna@kulzer-dental.com)

· **Emergency telephone number:**

Emergency CONTACT (24-Hour-Number)

ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

## 2 Hazard(s) identification

· **Classification of the substance or mixture**

Skin Irritation 2

H315 Causes skin irritation.

Eye Damage 1

H318 Causes serious eye damage.

Sensitization - Skin 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Repeated Exposure 2

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

· **Label elements**

· **GHS label elements**

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

· **Hazard pictograms**



GHS05 GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate

4-(1-oxo-2-propenyl)-morpholine

4-(1,1-Dimethylethyl)cyclohexyl acrylate

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

· **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

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Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Take off contaminated clothing and wash it before reuse.

Collect spillage.

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

· **Classification system**

· **NFPA ratings for USA (scale 0-4)**



Health = 3  
Fire = 1  
Reactivity = 0

· **HMIS-Ratings (Scale 0-4)**



Health = \*3  
Fire = 1  
Reactivity = 0

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

· **Description: -**

· **Dangerous components:**

42594-17-2	(octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate Sensitization - Skin 1B, H317	≥25-≤100%
5117-12-4	4-(1-oxo-2-propenyl)-morpholine Specific Target Organ Toxicity - Repeated Exposure 2, H373 Eye Damage 1, H318 Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	≥10-<20%
68585-11-5	Polymeric urethane acrylate Skin Irritation 2, H315	≥7-<20%
84100-23-2	4-(1,1-Dimethylethyl)cyclohexyl acrylate Skin Irritation 2, H315; Sensitization - Skin 1A, H317; Specific Target Organ Toxicity - Single Exposure 3, H335 Flammable liquids 4, H227 Specific concentration limit: STOT SE 3; H335: C ≥ 10 %	≥0.2-<3%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Sensitization - Skin 1A, H317	>0-<3%

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· **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**

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

· **After inhalation**

Supply fresh air; consult doctor in case of complaints.

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 or rash occurs: Get medical advice/attention.

· **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

Protect unharmed eye.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed** Allergic reactions

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### 5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

· **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.

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

· **Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes and skin.

Do not breathe vapor / mist / gas.

Ensure adequate ventilation

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· **Environmental precautions:**

Prevent seepage into sewage system, workpits and cellars.

Suppress gases/fumes/haze with water spray.

Keep contaminated washing water and dispose of appropriately.

· **Methods and material for containment and cleaning up:**

Dispose of the collected material according to regulations.

Send for recovery or disposal in suitable receptacles.

Ensure adequate ventilation.

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).

· **Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**

None of the ingredients is listed.

· **PAC-2:**

None of the ingredients is listed.

· **PAC-3:**

None of the ingredients is listed.

## 7 Handling and storage

· **Handling**

do not mix with

Radical initiator

Reacts with peroxides and other radical forming substances

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Avoid contact with eyes and skin.

Do not breathe vapor / mist / gas.

Wear protective equipment. Keep unprotected persons away.

Keep away from heat and direct sunlight.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Avoid UV radiation/sunlight.

Protect from heat.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Keep away from heat.

Protect from exposure to the light.

· **Information about storage in one common storage facility: Not required.**

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- **Further information about storage conditions:**
  - Store receptacle in a well ventilated area.
  - Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
  - Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
    - At this time, the other constituents have no known exposure limits.

### 112926-00-8 amorphous silica

PEL	20mppcf or 80mg/m <sup>3</sup> /%SiO <sub>2</sub>
REL	Long-term value: 6 mg/m <sup>3</sup> See Pocket Guide App. C
TLV	TLV withdrawn

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

- **Exposure controls**
  - **Personal protective equipment**
    - **General protective and hygienic measures**
      - Immediately remove all soiled and contaminated clothing
      - Do not eat or drink while working.
      - Avoid contact with the eyes and skin.
      - The usual precautionary measures for handling chemicals should be followed.
      - Do not inhale gases / fumes / aerosols.
      - Wash hands before breaks and at the end of work.
    - **Breathing equipment:**
      - Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).
    - **Protection of hands:**
      - 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
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      - Check protective gloves prior to each use for their proper condition.
    - **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.

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- **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 of a maximum of 15 minutes gloves made of the following materials are suitable:**  
Butyl rubber, BR  
Nitrile rubber, NBR
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Light weight protective clothing
- **Limitation and supervision of exposure into the environment**  
Do not allow to penetrate the ground/soil.  
Do not allow to enter sewers/ surface or ground water.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

##### · Form:

Fluid

##### · Color:

Beige

##### · Odor:

Characteristic

##### · Odor threshold:

Not determined.

##### · pH-value:

Mixture is non-soluble (in water).

##### · Change in condition

##### · Melting point/Melting range:

undetermined

##### · Boiling point/Boiling range:

>100 °C (>212 °F)

##### · Flash point:

>100 °C (>212 °F)

##### · Flammability (solid, gaseous)

Not applicable.

##### · Auto igniting:

234 °C (453.2 °F)

##### · Decomposition temperature:

Not determined.

##### · Ignition temperature:

Product is not selfigniting.

##### · Danger of explosion:

Product does not present an explosion hazard.

##### · Explosion limits:

##### · Lower:

Not determined.

##### · Upper:

Not determined.

##### · Vapor pressure:

Not determined.

##### · Density at 20 °C (68 °F):

1.1 g/cm<sup>3</sup> (9.1795 lbs/gal)

##### · Relative density

Not determined.

##### · Vapor density

Not determined.

##### · Evaporation rate

Not determined.

##### · Solubility in / Miscibility with

##### · Water:

Not miscible or difficult to mix

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· **Partition coefficient (n-octanol/water):** Not applicable for mixtures

· **Viscosity:**

· **dynamic:**

Not determined.

· **kinematic:**

Not determined.

· **Other information**

No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Possibility of hazardous reactions** Danger of polymerization
- **Conditions to avoid** Heat, flames and sparks.
- **Incompatible materials:**
  - Radical initiator
  - Reacts with peroxides and other radical forming substances
- **Hazardous decomposition products:** none

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

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

**42594-17-2 (octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate**

Oral LD0 >2,000 mg/kg (rat) (OECD 423)

Dermal LD0 >2,000 mg/kg (rat) (OECD 402)

**5117-12-4 4-(1-oxo-2-propenyl)-morpholine**

Oral LD50 588 mg/kg (ATE)

588 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

**84100-23-2 4-(1,1-Dimethylethyl)cyclohexyl acrylate**

Oral LD50 5,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

**947-19-3 (Hydroxycyclohexyl)(phenyl)ketone**

Oral LD50 >2,500 mg/kg (rat) (OECD 401)

Dermal LD50 >5,000 mg/kg (rat) (OECD 402)

**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

Oral LD50 >2,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

· **Sensitization:** Sensitization possible through skin contact.

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· **Additional toxicological information:**

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**42594-17-2 (octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate**

EC50/48h 2.36 mg/l (daphnia) (OECD 202)

LC50/96h 1.65 mg/l (fish) (OECD 203)

ErC50 / 72 h 1.6 mg/l (algae) (OECD 201)

ErC10/72h 0.64 mg/L (algae) (OECD 201)

**5117-12-4 4-(1-oxo-2-propenyl)-morpholine**

EC50/48h 120 mg/l (daphnia) (OECD 202)

LC50/96h >220 mg/l (fish) (OECD 203)

ErC50 / 72 h >120 mg/l (algae) (OECD 201)

NOEC / 72h ≥120 mg/l (algae) (OECD 201)

**84100-23-2 4-(1,1-Dimethylethyl)cyclohexyl acrylate**

EC50/48h 1.03 mg/l (daphnia) (OECD 202)

LC50/96h >1.27 mg/l (fish) (OECD 203)

ErC50 / 72 h 0.539 mg/l (algae) (OECD 201)

ErC10/72h 0.414 mg/L (algae) (OECD 201)

**947-19-3 (Hydroxycyclohexyl)(phenyl)ketone**

EC50/48h 53.9 mg/l (daphnia) (OECD 202)

LC50/96h 24 mg/l (fish) (EU C.1)

NOEC / 21d 0.3 mg/l (daphnia) (OECD 211)

ErC50 / 72 h 14.4 mg/l (algae) (OECD 201)

NOEC / 72h 0.7 mg/l (algae) (OECD 201)

ErC10/72h 2.51 mg/L (algae) (OECD 201)

LC50/ 35d >10 mg/L (fish) (OECD 210)

**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

EC50/72h >0.26 mg/l (algae) (OECD 201)

EC50/48h >0.001175 mg/l (daphnia) (OECD 202)

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LC50/96h >0.09 mg/l (fish) (OESO 203)

· **Persistence and degradability**

**42594-17-2 (octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate**

biodegradability 28 % /28d (not defined)

**5117-12-4 4-(1-oxo-2-propenyl)-morpholine**

biodegradability 35 % /28d (not defined) (OECD 301D)

**84100-23-2 4-(1,1-Dimethylethyl)cyclohexyl acrylate**

biodegradability 4 % /28d (not defined) (OECD 301C)

**947-19-3 (Hydroxycyclohexyl)(phenyl)ketone**

biodegradability 73 % /28d (not defined) (EU C.4-C)

**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

biodegradability 1 % /29d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

· **Behavior in environmental systems:**

· **Bioaccumulative potential**

**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

Bloconcentration factor (BCF) <5 (not defined)

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· **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.

Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Non contaminated packagings can be used for recycling.

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**14 Transport information**

· **UN-Number**

· DOT  
· ADR, IMDG, IATA

Void  
UN3082

· **UN proper shipping name**

· DOT  
· ADR

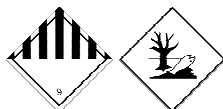
Void  
3082 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S. ((octahydro-4,7-  
methano-1H-indenediyl)bis(methylene) diacrylate)  
· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. ((octahydro-4,7-methano-1H-  
indenediyl)bis(methylene) diacrylate, 4-(1,1-  
Dimethylethyl)cyclohexyl acrylate), MARINE  
POLLUTANT  
· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. ((octahydro-4,7-methano-1H-  
indenediyl)bis(methylene) diacrylate)

· **Transport hazard class(es)**

· DOT  
· Class

Void

· **ADR**

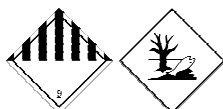


· **Class**

9 (M6) Miscellaneous dangerous substances and  
articles  
9

· **Label**

· **IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and  
articles  
9

· **Label**

· **Packing group**

· DOT  
· ADR, IMDG, IATA

Void  
III

· **Environmental hazards:**

· **Marine pollutant:**  
· **Special marking (ADR):**

Symbol (fish and tree)  
Symbol (fish and tree)

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· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
· <b>Hazard identification number (Kemler code):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	-
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((OCTAHYDRO-4,7-METHANO-1H-INDENEDIYL)BIS(METHYLENE)DIACRYLATE), 9, III

**15 Regulatory information**

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

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Prop 65 - Chemicals known to cause cancer**

75-21-8 ethylene oxide

· **Chemicals known to cause reproductive toxicity for females:**

75-21-8 ethylene oxide

· **Chemicals known to cause reproductive toxicity for males:**

75-21-8 ethylene oxide

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**· Chemicals known to cause developmental toxicity:**

75-21-8 ethylene oxide

**· Cancerogenity categories**

**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value)**

None of the ingredients is listed.

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**· Chemical safety assessment**

**· Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**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.

**· Relevant phrases**

H227 Combustible liquid.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

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

**· Date of preparation / last revision 05/07/2025 / -**

**· 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

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)

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

Flammable liquids 4: Flammable liquids – Category 4

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

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*Eye Damage 1: Serious eye damage/eye irritation – Category 1*

*Sensitization - Skin 1: Skin sensitisation – Category 1*

*Sensitization - Skin 1A: Skin sensitisation – Category 1A*

*Sensitization - Skin 1B: Skin sensitisation – Category 1B*

*Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3*

*Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2*

**\* Data compared to the previous version altered.**

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