Chloroform

Identification
Substance name: Chloroform, Trichloromethane
CAS no.: 67-66-3
EINECS no.: 200-663-8
Index no.: 602-006-00-4

Classification and Labelling

Classification and labelling according to CLP / GHS

A: Official Classification according to EU regulation 1272/2008 Annexe VI table 3.1

A1 Classification

The substance is classified as follows:

- for health hazards:

  Acute toxicity - oral: Acute Tox. 4 (Hazard statement: H302: Harmful if swallowed.)

  Carcinogenicity: Carc. 2 (Hazard statement: H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.)

  Specific target organ toxicity - repeated: STOT Rep. Exp. 2 (Hazard statement: H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.)

Specific concentration limits:

<table>
<thead>
<tr>
<th>Concentration (%)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>


A2 Labelling

Signal word: Warning

Hazard pictogram:

GHS07: exclamation mark

GHS08: health hazard

Hazard statements:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. (May act via oral and inhalation routes)

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. (May affect the liver and kidneys, May act via oral and inhalation routes)

B : Proposed Self classification according to EU regulation 1272/2008

B1 Classification

• for health hazards:

Acute toxicity - Acute Tox. 4 (Hazard statement: H302: Harmful if swallowed.) oral:
Acute toxicity - inhalation: 
Acute Tox. 4 (Hazard statement: H332: Harmful if inhaled.)

Skin corrosion/irritation: 
Skin Irrit. 2 (Hazard statement: H315: Causes skin irritation.)

Serious damage/eye irritation: 
Eye Irrit. 2 (Hazard statement: H319: Causes serious eye irritation.)

Reproductive Toxicity: 
Repr. 2 (Hazard statement: H361: Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.)

Specific effect: retardation in development of foetus

Carcinogenicity: 
Carc. 2 (Hazard statement: H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.)

Specific target organ toxicity - repeated: 
STOT Rep. Exp. 2 (Hazard statement: H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.)

Affected organs: liver, kidneys

Route of exposure: Inhalation

B2 Labelling

Signal word: Warning

Hazard pictogram:

GHS07: exclamation mark
GHS08: health hazard

Hazard statements:

H336: May cause drowsiness or dizziness.
H302: Harmful if swallowed.
H332: Harmful if inhaled.
H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361: Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. (retardation in development of foetus)

Precautionary statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P281: Use personal protective equipment as required.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

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3.2. Classification and labelling according to DSD / DPD

3.2.1. official Classification and labelling according to Annex I of Directive 67/548/EEC
A Classification

The substance is classified as follows:

- for health effects:

  Xn; R22 Harmful; Harmful if swallowed.

  Xn; R48/20/22 Harmful; Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

  Xi; R38 Irritant; Irritating to skin.

  Carc. Cat. 3; R40 Limited evidence of a carcinogenic effect.

B Labelling

Indication of danger:

Xn - harmful

R-phrases:

R22 - harmful if swallowed

R48/20/22 - harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

R38 - irritating to skin

R40 - limited evidence of a carcinogenic effect

S-phrases:

S2 - keep out of the reach of children

S36/37 - wear suitable protective clothing and gloves

S46 - if swallowed, seek medical advice immediately and show this container or label

Specific concentration limits:
### Concentration (%) Classification

<table>
<thead>
<tr>
<th>Concentration (%)</th>
<th>Classification</th>
<th>Justification for classification can be found in section</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;= 5.0</td>
<td>Xn; R22 Harmful; Harmful if swallowed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Xn; R48/20/22 Harmful; Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.</td>
<td></td>
</tr>
</tbody>
</table>

### 3.2.2. Proposed Self classification according to Directive 67/548/EEC criteria

<table>
<thead>
<tr>
<th>Endpoints</th>
<th>Classification</th>
<th>Justification for classification can be found in section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Xn; R20/22 Harmful; Harmful by inhalation and if swallowed. R67 Vapours may cause drowsiness and dizziness.</td>
<td>5.2</td>
</tr>
<tr>
<td>Repeated dose toxicity</td>
<td>Xn; R48/20 Harmful; Harmful: danger of serious damage to health by prolonged exposure through inhalation.</td>
<td>5.6</td>
</tr>
<tr>
<td>Irritation / Corrosion</td>
<td>Xi; R36/38 Irritant; Irritating to eyes and skin.</td>
<td>5.3.4 and 5.4.3</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Carc. Cat. 3; R40 Limited evidence of a carcinogenic effect.</td>
<td>5.8.3</td>
</tr>
<tr>
<td>Toxicity to reproduction-</td>
<td>Repr. Cat. 3; R63 Possible risk of harm to the unborn child.</td>
<td>5.9.3</td>
</tr>
<tr>
<td>development</td>
<td></td>
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</tr>
</tbody>
</table>

### B Labelling

**Indication of danger:**

Xn - harmful

**R-phrases:**
R20/22 - harmful by inhalation and if swallowed

R48/20/22 - harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

R36/38 - irritating to eyes and skin

R40 - limited evidence of a carcinogenic effect

R63 - possible risk of harm to the unborn child

S-phrases:

S2 - keep out of the reach of children

S36/37/39 - wear suitable protective clothing, gloves and eye/face protection

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