SAFETY DATA SHEET

2-chlorobenzaldehyde

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

1.1 Product identifier:
- Product name: 2-chlorobenzaldehyde
- Synonyms: benzaldehyde, 2-chloro-; ortho-chlorobenzaldehyde
- Registration number REACH: 01-2119458949-15-0001
- Product type REACH: Substance/mono-constituent (Organic)
- CAS number: 89-98-5
- EC index number: 605-011-00-X
- EC number: 201-956-3
- RTECS number: CU5075000
- Molecular mass: 140.57 g/mol
- Formula: C7H5ClO

1.2 Relevant identified uses of the substance or mixture and uses advised against:
- 1.2.1 Relevant identified uses
  Intermediate under strictly controlled conditions
- 1.2.2 Uses advised against
  No uses advised against known

1.3 Details of the supplier of the safety data sheet:
- Supplier of the SDS
  INEOS ChlorVinyls Belgium NV
  Heilig Hartlaan 21
  BE-3980 Tessenderlo
  Tel: +32 13 61 23 00
  sds.responsible@ineos.com

1.4 Emergency telephone number:
- 24h/24h: +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:
- 2.1.1 Classification according to Regulation EC No 1272/2008
<table>
<thead>
<tr>
<th>Class</th>
<th>Category</th>
<th>Hazard statement code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr.</td>
<td>category 1B</td>
<td>H314: Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Skin Sens.</td>
<td>category 1</td>
<td>H317: May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

- 2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC
  | C;R34 | Causes burns. |
  | R43   | May cause sensitisation by skin contact. |

2.2 Label elements:
- Labelling according to Regulation EC No 1272/2008 (CLP)
  | Hazard pictograms |
  | Signal word: Danger |
  | H314: Causes severe skin burns and eye damage. |
  | H317: May cause an allergic skin reaction. |
2-chlorobenzaldehyde

P-statements
- P280 Wear protective gloves, protective clothing and eye protection/face protection.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P303 + P361 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. + P353
- P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. + P338
- P301 + P330 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. + P331

2.3 Other hazards:

SECTION 3: Composition/information on ingredients

3.1 Substances:

<table>
<thead>
<tr>
<th>Name (REACH Registration No)</th>
<th>CAS No/EC No</th>
<th>Conc.</th>
<th>Classification according to DSD/ DPD</th>
<th>Classification according to CLP</th>
<th>Note</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-chlorobenzaldehyde (01-2119458949-15)</td>
<td>89-98-5 201-956-3</td>
<td></td>
<td>C; R34 R43</td>
<td>Skin Corr. 1B; H314 Skin Sens. 1; H317</td>
<td>(1)</td>
<td>Mono-constituent</td>
</tr>
</tbody>
</table>

(1) For R-phrases and H-statements in full: see heading 16

3.2 Mixtures:
Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

After inhalation:
- Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:
- Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not apply (chemical) neutralizing agents. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface >10%: take victim to hospital.

After eye contact:
- Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.

After ingestion:
- Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Immediately consult a doctor/medical service.

4.2 Most important symptoms and effects, both acute and delayed:

4.2.1 Acute symptoms:
- After inhalation: Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
- After skin contact: Caustic burns/corrosion of the skin.
- After eye contact: Corrosion of the eye tissue.
- After ingestion: No effects known.

4.2.2 Delayed symptoms:
No effects known.

4.3 Indication of any immediate medical attention and special treatment needed:
- If applicable and available it will be listed below.

SECTION 5: Firefighting measures

Reason for revision: 453/2010
Publication date: 1999-10-06
Date of revision: 2011-12-02
Reference number: 000000
Product number: 14374
Revision number: 0100
2-chlorobenzaldehyde

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

5.1.2 Unsuitable extinguishing media:
No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:
On burning: release of toxic and corrosive gases/vapours (phosgene, hydrogen chloride, carbon monoxide - carbon dioxide).

5.3 Advice for firefighters:
5.3.1 Instructions:
Cool tanks/drum with water spray/remove them into safety. Use water moderately and if possible collect or contain it. Take account of toxic fire-fighting water. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

5.3.2 Special protective equipment for fire-fighters:

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:
No naked flames. Large spills/in confined spaces: consider evacuation.

6.1.1 Protective equipment for non-emergency personnel
See heading 8.2

6.1.2 Protective equipment for emergency responders
Suitable protective clothing
See heading 8.2

6.2 Environmental precautions:
Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

6.3 Methods and material for containment and cleaning up:
Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or kieselguhr. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Damaged/coolied tanks must be emptied. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:
See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

7.2 Conditions for safe storage, including any incompatibilities:
7.2.1 Safe storage requirements:
Provide for a tub to collect spills. May be stored under nitrogen. Meet the legal requirements. Store in a dry area. Store in a dark area. Ventilation at floor level. Keep locked up. 20 - 40 °C.

7.2.2 Keep away from:
Water/moisture, (strong) bases, reducing agents, oxidizing agents, heat sources.

7.2.3 Suitable packaging material:
Glass, steel with plastic inner lining, HDPE.

7.2.4 Non suitable packaging material:
No data available

7.3 Specific end use(s):
If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

Reason for revision: 453/2010
Publication date: 1999-10-06
Date of revision: 2011-12-02
Reference number: 000000
Revision number: 0100
Product number: 14374
8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values
If limit values are applicable and available these will be listed below.
b) National biological limit values
If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods
If applicable and available it will be listed below.

8.1.3 Applicable limit values when using the substance or mixture as intended
If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values
If applicable and available it will be listed below.

8.1.5 Control banding
If applicable and available it will be listed below.

8.2 Exposure controls:
This safety data sheet is consistent with the specific conditions relied on to justify the registration in accordance with Article 17 or 18 of Regulation (EC) No. 1907/2006.
Following general controls are applicable: Comply with the legal requirements. Rigorous containment by technical means during the whole lifecycle. Procedural and control technologies in place to minimize emissions and exposure. Restricted to properly trained and authorized personnel. Special operating procedures in case of cleaning and maintenance. Procedural and/or control technologies in case of accident and waste generation. Handling procedures well documented and strictly supervised.

8.2.1 Appropriate engineering controls

8.2.2 Individual protection measures, such as personal protective equipment
Observe strict hygiene. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:
High gas/vapour concentration: gas mask with filter type A.

b) Hand protection:
Gloves.

<table>
<thead>
<tr>
<th>Materials</th>
<th>Breakthrough time</th>
<th>Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>butyl rubber</td>
<td>&gt;8 h</td>
<td>0.30 mm</td>
</tr>
<tr>
<td>viton</td>
<td>&gt;8 h</td>
<td>0.70 mm</td>
</tr>
</tbody>
</table>

c) Eye protection:
Face shield.

d) Skin protection:
Corrosion-proof clothing.

8.2.3 Environmental exposure controls:
See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Physical form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>Irritating/pungent odour</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless to light yellow</td>
</tr>
<tr>
<td>Particle size</td>
<td>Not applicable (liquid)</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available on direct fire hazard</td>
</tr>
<tr>
<td>Log Kow</td>
<td>2.44 ; Experimental value ; OECD 117: Partition Coefficient (n-octanol/water), HPLC method ; 25 °C</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>11.9 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>213.6 °C ; 1013 hPa</td>
</tr>
<tr>
<td>Flash point</td>
<td>97 °C ; 1013 hPa</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.46 hPa ; 20 °C</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>4.9</td>
</tr>
</tbody>
</table>
2-chlorobenzaldehyde

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility</td>
<td>water; 1.47 g/l; 20 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.2481; 20 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt;500 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>360 °C; 1013 hPa</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No chemical group associated with explosive properties</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No chemical group associated with oxidising properties</td>
</tr>
<tr>
<td>PH</td>
<td>3.7; 0.03 %</td>
</tr>
</tbody>
</table>

**Physical hazards**

No physical hazard class

**9.2 Other information:**

No data available

### SECTION 10: Stability and reactivity

**10.1 Reactivity:**

Temperature above flashpoint: higher fire/explosion hazard. Substance has acid reaction.

**10.2 Chemical stability:**

Unstable on exposure to moisture. Unstable on exposure to air. Unstable on exposure to light.

**10.3 Possibility of hazardous reactions:**

Oxidizes slowly on exposure to air. Reacts exothermically with many compounds e.g.: with (some) bases, with (strong) oxidizers and with (strong) reducers.

**10.4 Conditions to avoid:**


**10.5 Incompatible materials:**

Oxidizing agents, reducing agents, (strong) bases, water/moisture, heat sources.

**10.6 Hazardous decomposition products:**

On burning: release of toxic and corrosive gases/vapours (phosgene, hydrogen chloride, carbon monoxide - carbon dioxide).

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects:**

**11.1.1 Test results**

#### Acute toxicity

**2-chlorobenzaldehyde**

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Parameter</th>
<th>Method</th>
<th>Value</th>
<th>Exposure time</th>
<th>Species</th>
<th>Gender</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>OECD 401</td>
<td>3150 mg/kg bw</td>
<td>Rat</td>
<td>Female</td>
<td>Experimental value</td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>OECD 401</td>
<td>&gt;=3150-&lt;5000 mg/kg bw</td>
<td>Rat</td>
<td>Male</td>
<td>Experimental value</td>
<td></td>
</tr>
<tr>
<td>Inhalation (vapours)</td>
<td>LC50</td>
<td>OECD 403</td>
<td>&gt;1.203 mg/l</td>
<td>4 h</td>
<td>Rat</td>
<td>Male/female</td>
<td>Experimental value</td>
</tr>
</tbody>
</table>

#### Corrosion/irritation

**2-chlorobenzaldehyde**

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Result</th>
<th>Method</th>
<th>Exposure time</th>
<th>Time point</th>
<th>Species</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>Not irritating</td>
<td>OECD 405</td>
<td></td>
<td></td>
<td>Rabbit</td>
<td>Experimental value</td>
</tr>
<tr>
<td>Skin</td>
<td>Corrosive</td>
<td>OECD 404</td>
<td></td>
<td></td>
<td>Rabbit</td>
<td>Experimental value</td>
</tr>
</tbody>
</table>

**Conclusion**

Corrosive to the skin

**Respiratory or skin sensitisation**

**2-chlorobenzaldehyde**

Reason for revision: 453/2010

Date of revision: 2011-12-02

Reference number: 000000

Product number: 14374
2-chlorobenzaldehyde

Conclusion
May cause an allergic skin reaction.

Specific target organ toxicity
2-chlorobenzaldehyde
No data available

Conclusion
No data available

Mutagenicity (in vitro)
2-chlorobenzaldehyde

<table>
<thead>
<tr>
<th>Result</th>
<th>Method</th>
<th>Test substrate</th>
<th>Effect</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>Ames test</td>
<td>Bacteria (S.typhimurium)</td>
<td></td>
<td>Experimental value</td>
</tr>
<tr>
<td>Negative</td>
<td>Micronucleus test</td>
<td>Chinese hamster lung fibroblasts</td>
<td></td>
<td>Experimental value</td>
</tr>
</tbody>
</table>

Mutagenicity (in vivo)
2-chlorobenzaldehyde

<table>
<thead>
<tr>
<th>Result</th>
<th>Method</th>
<th>Exposure time</th>
<th>Test substrate</th>
<th>Gender</th>
<th>Organ</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>Negative</td>
<td>Micronucleus test</td>
<td>Mouse Male</td>
<td>Static system</td>
<td></td>
<td></td>
<td>Experimental value</td>
</tr>
</tbody>
</table>

Carcinogenicity
2-chlorobenzaldehyde
No data available

Reproductive toxicity
2-chlorobenzaldehyde
No data available

Conclusion CMR
Not classified for carcinogenicity
Not classified for mutagenic or genotoxic toxicity
Not classified for reprotoxic or developmental toxicity

Toxicity other effects
2-chlorobenzaldehyde
No data available

Conclusion
No data available

SECTION 12: Ecological information

12.1 Toxicity:

<table>
<thead>
<tr>
<th>2-chlorobenzaldehyde</th>
<th>Parameter</th>
<th>Method</th>
<th>Value</th>
<th>Duration</th>
<th>Species</th>
<th>Test design</th>
<th>Fresh/salt water</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute toxicity fishes</td>
<td>LC50</td>
<td>14.83 mg/l</td>
<td>96 h</td>
<td>Brachydanio rerio</td>
<td>STATIC SYSTEM</td>
<td>Fresh water</td>
<td>Experimental value</td>
</tr>
<tr>
<td></td>
<td>Acute toxicity invertebrates</td>
<td>EC50</td>
<td>30 mg/l</td>
<td>24 h</td>
<td>Daphnia magna</td>
<td>STATIC SYSTEM</td>
<td>Fresh water</td>
<td>Experimental value</td>
</tr>
<tr>
<td></td>
<td>Toxicity algae and other aquatic plants</td>
<td>EC50</td>
<td>16.8 mg/l</td>
<td>72 h</td>
<td>Desmodesmus subsipicatus</td>
<td>STATIC SYSTEM</td>
<td>Fresh water</td>
<td>Experimental value</td>
</tr>
<tr>
<td></td>
<td>Toxicity algae and other aquatic plants</td>
<td>NOEC</td>
<td>2.25 mg/l</td>
<td>72 h</td>
<td>Desmodesmus subsipicatus</td>
<td>STATIC SYSTEM</td>
<td>Fresh water</td>
<td>Experimental value</td>
</tr>
<tr>
<td></td>
<td>Toxicity aquatic microorganisms</td>
<td>EC50</td>
<td>132 mg/l</td>
<td>3 h</td>
<td>Bacteria</td>
<td>STATIC SYSTEM</td>
<td>Fresh water</td>
<td>Experimental value</td>
</tr>
</tbody>
</table>
12.2 Persistence and degradability:

2-chlorobenzaldehyde

<table>
<thead>
<tr>
<th>Biodegradation water</th>
<th>Value</th>
<th>Duration</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD 301C: Modified MITI Test (I)</td>
<td>63 %</td>
<td>20 day(s)</td>
<td>Experimental value</td>
</tr>
<tr>
<td>OECD 302B: Inherent Biodegradability: Zahn-Wellens/EMPA Test</td>
<td>100 %</td>
<td>13 day(s)</td>
<td>Experimental value</td>
</tr>
<tr>
<td>OECD 302B: Inherent Biodegradability: Zahn-Wellens/EMPA Test</td>
<td>&gt; 95 %</td>
<td>10 day(s)</td>
<td>Experimental value</td>
</tr>
</tbody>
</table>

**Conclusion**

Readily biodegradable in water

Inherently biodegradable

12.3 Bioaccumulative potential:

2-chlorobenzaldehyde

<table>
<thead>
<tr>
<th>Log Kow</th>
<th>Method</th>
<th>Value</th>
<th>Temperature</th>
<th>Value determination</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD 117: Partition Coefficient (n-octanol/water), HPLC method</td>
<td>2.44</td>
<td>25 °C</td>
<td>Experimental value</td>
<td></td>
</tr>
</tbody>
</table>

**Conclusion**

Low potential for bioaccumulation (Log Kow <=3)

12.4 Mobility in soil:

2-chlorobenzaldehyde

Volatile organic compounds (VOC) 100 %

12.5 Results of PBT and vPvB assessment:

Substance does not meet the screening criteria for persistency nor bioaccumulation so is neither PBT nor vPvB.

12.6 Other adverse effects:

2-chlorobenzaldehyde

Global warming potential (GWP)

No data available

Ozone-depleting potential (ODP)

Ozone layer

Not dangerous for the ozone layer (Council Regulation (EC) no 1005/2009)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste


16 03 05* (organic wastes containing dangerous substances). Depending on branch of industry and production process, also other EURAL codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Recycle/reuse. Remove to an incinerator for chlorinated waste materials with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container


15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

Road (ADR)

14.1 UN number:

UN number 3265

14.2 UN proper shipping name:

Proper shipping name Corrosive liquid, acidic, organic, n.o.s.
# 2-chlorobenzaldehyde

<table>
<thead>
<tr>
<th>Techn./chem. name ADR</th>
<th>2-chlorobenzaldehyde</th>
</tr>
</thead>
</table>

### 14. Transport hazard class(es):  

<table>
<thead>
<tr>
<th>Hazard identification number</th>
<th>B0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>8</td>
</tr>
<tr>
<td>Classification code</td>
<td>C3</td>
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</tbody>
</table>

### 14. Packing group:  

<table>
<thead>
<tr>
<th>Packing group</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labels</td>
<td>B</td>
</tr>
</tbody>
</table>

### 14. Environmental hazards:  

| Environmentally hazardous substance mark | no |

### 14. Special precautions for user:  

<table>
<thead>
<tr>
<th>Special provisions</th>
<th>274</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited quantities</td>
<td>Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)</td>
</tr>
</tbody>
</table>

### Rail (RID)  

| UN number | 3265 |

### Inland waterways (ADN)  

| UN number | 3265 |

### Sea (IMDG)  

| UN number | 3265 |

## Revision information  
Reason for revision: 453/2010  
Date of revision: 2011-12-02  
Reference number: 000000  
Product number: 14374
**2-chlorobenzaldehyde**

<table>
<thead>
<tr>
<th>Class</th>
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<tbody>
<tr>
<td>14.4 Packing group:</td>
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<td>Packing group</td>
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<tr>
<td>Labels</td>
<td>8</td>
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<tr>
<td>14.5 Environmental hazards:</td>
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</tr>
<tr>
<td>Marine pollutant</td>
<td></td>
</tr>
<tr>
<td>Environmentally hazardous substance mark</td>
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<tr>
<td>14.6 Special precautions for user:</td>
<td></td>
</tr>
<tr>
<td>Special provisions</td>
<td>274</td>
</tr>
<tr>
<td>Limited quantities</td>
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</tr>
<tr>
<td>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</td>
<td></td>
</tr>
<tr>
<td>Annex II of MARPOL 73/78</td>
<td></td>
</tr>
</tbody>
</table>

**Air (ICAO-TI/IATA-DGR)**

| 14.1 UN number: | |
| UN number | 3265 |
| 14.2 UN proper shipping name: | |
| Proper shipping name | Corrosive liquid, acidic, organic, n.o.s. |
| Techn./chem. name ICAO | 2-chlorobenzaldehyde |
| 14.3 Transport hazard class(es): | |
| Class | 8 |
| 14.4 Packing group: | |
| Packing group | 1 |
| Labels | 8 |
| 14.5 Environmental hazards: | |
| Environmentally hazardous substance mark | no |
| 14.6 Special precautions for user: | |
| Special provisions | A3 |
| Cargo transport: maximum net quantity per packaging | 30 L |
| Passenger and cargo transport: limited quantities: maximum net quantity per packaging | 0.5 L |

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

**National legislation**

- **The Netherlands**
  - Waterbezwaarlijkheid (for NL) 9
  - Waste identification other lists of waste materials LWCA (the Netherlands): KGA category 04

- **Germany**
  - WGK 1
  - Classification water polluting based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 3)

#### 15.2 Chemical safety assessment:

No chemical safety assessment is required; registered as an isolated intermediate. This safety data sheet is consistent with the specific conditions relied on to justify the registration in accordance with Article 17 or 18 of Regulation (EC) No. 1907/2006.

### SECTION 16: Other information


Enumerated in substance list Annex I of directive 67/548/EEC and extended with additional risk phrases

**Labels**

![C]

<table>
<thead>
<tr>
<th>R-phrases</th>
<th>S-phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>34 Causes burns</td>
<td>(01/02) (Keep locked up and out of the reach of children)</td>
</tr>
<tr>
<td>43 May cause sensitisation by skin contact</td>
<td></td>
</tr>
</tbody>
</table>

**Reason for revision:** 453/2010  
**Date of revision:** 2011-12-02  
**Reference number:** 000000  
**Product number:** 14374
2-chlorobenzaldehyde

26  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
45  In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Full text of any R-phrases referred to under headings 2 and 3:
R34  Causes burns
R43  May cause sensitisation by skin contact

Full text of any H-statements referred to under headings 2 and 3:
H314  Causes severe skin burns and eye damage.
H317  May cause an allergic skin reaction.

(*) = INTERNAL CLASSIFICATION BY BIG
PBT-substances = persistent, bioaccumulative and toxic substances
DSD  Dangerous Substance Directive
DPD  Dangerous Preparation Directive
CLP (EU-GHS)  Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult your BIG licence agreement for details.