# STAY CLEAN® LIQUID SOLDERING FLUX

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 10/5/2016  
Version: 1.0

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

### 1.1. Product identifier

- **Product form**: Mixtures
- **Trade name**: STAY CLEAN® LIQUID SOLDERING FLUX

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

- **Use of the substance/mixture**: Fluxing agent

#### 1.2.2. Uses advised against

- **No additional information available**

### 1.3. Details of the supplier of the safety data sheet

Harris Euro S.L.  
Arq. Ricard Giralt s/n Nave F 6  
17600 Figueres - España  
T +34 972 67 88 26 - F +34 972 50 51 43  
ventas@harriseuro.com

### 1.4. Emergency telephone number

- **Emergency number**: +1 216 383 8962  
  24 h  
  365 days

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

| Acute Tox. 4 (Oral) | H302  
| Skin Corr. 1B | H314  
| Eye Dam. 1 | H318  
| STOT SE 2 | H371  
| STOT SE 3 | H335  
| Aquatic Acute 1 | H400  
| Aquatic Chronic 1 | H410

**Adverse physicochemical, human health and environmental effects**

May cause damage to organs. Harmful if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

- **Signal word (CLP)**: Danger
- **Hazard pictograms (CLP)**: ![GHS05](image1), ![GHS07](image2), ![GHS08](image3), ![GHS09](image4)
- **Hazardous ingredients**: ammonium chloride; zinc chloride; hydrogen chloride; methanol
- **Hazard statements (CLP)**:  
  - H302 - Harmful if swallowed  
  - H314 - Causes severe skin burns and eye damage  
  - H335 - May cause respiratory irritation  
  - H371 - May cause damage to organs  
  - H410 - Very toxic to aquatic life with long lasting effects
- **Precautionary statements (CLP)**:  
  - P260 - Do not breathe vapours  
  - P273 - Avoid release to the environment  
  - P280 - Wear eye protection, protective gloves, face protection, protective clothing  
  - P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
  - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call POISON CENTER or doctor/physician

2.3. Other hazards
PBT: not yet assessed
vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>(EC no) 231-592-0</td>
<td></td>
<td>STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410</td>
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<tr>
<td></td>
<td>(EC index no) 030-003-00-2</td>
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<tr>
<td>ammonium chloride</td>
<td>(CAS No) 12125-02-9</td>
<td>5 - 25</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319</td>
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<tr>
<td></td>
<td>(EC no) 235-186-4</td>
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<tr>
<td></td>
<td>(EC index no) 017-014-00-8</td>
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<td></td>
</tr>
<tr>
<td>hydrogen chloride</td>
<td>(CAS No) 7647-01-0</td>
<td>3 - 5</td>
<td>Press. Gas Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314</td>
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<tr>
<td></td>
<td>(EC no) 231-595-7;231-596-7</td>
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<td></td>
<td>(EC index no) 017-002-00-2</td>
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<tr>
<td>methanol</td>
<td>(CAS No) 67-56-1</td>
<td>3 - 5</td>
<td>Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311</td>
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<td>(EC no) 200-659-6;200-659</td>
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<td>Acute Tox. 3 (Oral), H301 STOT SE 1, H370</td>
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<tr>
<td></td>
<td>(EC index no) 603-001-00-X</td>
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</table>

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>zinc chloride</td>
<td>(CAS No) 7646-85-7</td>
<td>(C &gt;= 5) STOT SE 3, H335</td>
</tr>
<tr>
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<td>(EC no) 231-592-0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(EC index no) 030-003-00-2</td>
<td></td>
</tr>
<tr>
<td>methanol</td>
<td>(CAS No) 67-56-1</td>
<td>(3 &lt;= C &lt; 10) STOT SE 2, H371</td>
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<td></td>
<td>(EC no) 200-659-6;200-659</td>
<td>(C &gt;= 10) STOT SE 1, H370</td>
</tr>
<tr>
<td></td>
<td>(EC index no) 603-001-00-X</td>
<td></td>
</tr>
</tbody>
</table>

Note U: When put on the market gases have to be classified as ‘Gases under pressure’, in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Note 5: The concentration limits for gaseous mixtures are expressed as volume per volume percentage.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation  : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. Monitor breathing. If necessary give artificial respiration.
First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion  : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/injuries : May cause damage to organs.
Symptoms/injuries after inhalation : May cause respiratory irritation.
Symptoms/injuries after skin contact : Burns.
Symptoms/injuries after eye contact : Serious damage to eyes.
Symptoms/injuries after ingestion: Burns. Toxic if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed
Obtain medical assistance. Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Not flammable.

5.3. Advice for firefighters
Firefighting instructions: Move containers from hazard area if it can be done safely.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
General measures: Do not breathe vapours. Avoid contact with skin, eyes and clothing. Ventilate area.
6.1.1. For non-emergency personnel
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions
Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Collect spills and put it into appropriated container. Wash contaminated equipment or sites of leaks with copious quantities of water.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Do not breathe vapours, mist. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Dike for recovery or absorb with appropriate material.
Storage conditions: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Incompatible materials: Heat sources. Direct sunlight.

7.3. Specific end use(s)
See Heading 1.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
<table>
<thead>
<tr>
<th>Local name</th>
<th>WEL TWA (mg/m³)</th>
<th>WEL STEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ammonium chloride (12125-02-9)</td>
<td>10 mg/m³ fume</td>
<td>20 mg/m³ fume</td>
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</tbody>
</table>
zinc chloride (7646-85-7)

<table>
<thead>
<tr>
<th>Location</th>
<th>Substance</th>
<th>Local name</th>
<th>WEL TWA (mg/m³)</th>
<th>WEL STEL (mg/m³)</th>
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</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>Zinc chloride</td>
<td></td>
<td>1 mg/m³ fume</td>
<td>2 mg/m³ fume</td>
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hydrogen chloride (7467-01-0)

<table>
<thead>
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<th>Location</th>
<th>Substance</th>
<th>Local name</th>
<th>IOELV TWA (mg/m³)</th>
<th>IOELV STEL (mg/m³)</th>
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<tr>
<td>EU</td>
<td>Hydrogen chloride</td>
<td></td>
<td>8 mg/m³</td>
<td>15 mg/m³</td>
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<tr>
<td>EU</td>
<td></td>
<td></td>
<td>5 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>United Kingdom</td>
<td></td>
<td></td>
<td>2 mg/m³ (gas and aerosol mists)</td>
<td>2 mg/m³ (gas and aerosol mists)</td>
</tr>
<tr>
<td>United Kingdom</td>
<td></td>
<td></td>
<td>1 ppm (gas and aerosol mists)</td>
<td>5 ppm (gas and aerosol mists)</td>
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methanol (67-56-1)

<table>
<thead>
<tr>
<th>Location</th>
<th>Substance</th>
<th>Local name</th>
<th>WEL TWA (mg/m³)</th>
<th>WEL STEL (mg/m³)</th>
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<tbody>
<tr>
<td>United Kingdom</td>
<td>Methanol</td>
<td></td>
<td>266 mg/m³</td>
<td>333 mg/m³</td>
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<td>United Kingdom</td>
<td></td>
<td></td>
<td>200 ppm</td>
<td>250 ppm</td>
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</table>

8.2. Exposure controls

Appropriate engineering controls:
Provide local exhaust or general room ventilation to minimize vapour concentrations. Ensure exposure is below occupational exposure limits (where available).

Personal protective equipment:
Avoid all unnecessary exposure.

Hand protection:
Protective gloves. Welders gloves (Technical Standard DIN 4841-4)

Eye protection:
Safety glasses. Standard EN 166 - Personal eye-protection

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
Full face piece respirator (organic vapours)

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
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<tr>
<td>Colour</td>
<td>Colourless. Transparent.</td>
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<tr>
<td>Odour</td>
<td>Slightly sweet.</td>
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<td>Odour threshold</td>
<td>No data available</td>
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<tr>
<td>pH</td>
<td>acid</td>
</tr>
</tbody>
</table>
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Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : > 1
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour Pressure 20°C : No data available
Vapour density : 4
Relative density : 1.32
Solubility : Poorly soluble in water.
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Extremely high temperatures.

10.5. Incompatible materials

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Harmful if swallowed.
ATE CLP (oral) 663.4061165470 mg/kg bodyweight
ammonium chloride (12125-02-9)
LD50 oral rat 1650 mg/kg bodyweight
zinc chloride (7646-85-7)
LD50 oral rat 350 mg/kg bodyweight
hydrogen chloride (7647-01-0)
LD50 oral 900 mg/kg
LC50 inhalation rat (ppm) 3124 ppm/1h
methanol (67-56-1)
LD50 oral rat 6200 mg/kg bodyweight
LC50 inhalation rat (ppm) 22500 ppm 8 h.
Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: acid
Serious eye damage/irritation : Causes serious eye damage.
pH: acid
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Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: May cause damage to organs. May cause respiratory irritation.
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Very toxic to aquatic life with long lasting effects.

hydrogen chloride (7647-01-0)
LC50 fishes: 282 mg/l Western mosquitofish (Gambusia affinis)

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
methanol (67-56-1)
Log Kow: -0.77

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment

STAY CLEAN® LIQUID SOLDERING FLUX
PBT: not yet assessed
vPvB: not yet assessed

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>UN number</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
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<td>UN number</td>
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<tr>
<td>1760</td>
<td>UN number</td>
<td>1760</td>
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</table>

14.2. UN proper shipping name
CORROSIVE LIQUID, N.O.S.
CORROSIVE LIQUID, N.O.S.
CORROSIVE LIQUID, N.O.S.
CORROSIVE LIQUID, N.O.S.

Transport document description

| UN 1760 CORROSIVE LIQUID, N.O.S. (zinc chloride), 8, II, (E), ENVIRONMENTALLY HAZARDOUS | UN 1760 CORROSIVE LIQUID, N.O.S. (zinc chloride), 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS | UN 1760 Corrosive liquid, n.o.s. (zinc chloride), 8, II, ENVIRONMENTALLY HAZARDOUS | UN 1760 CORROSIVE LIQUID, N.O.S. (zinc chloride), 8, II, ENVIRONMENTALLY HAZARDOUS | UN 1760 CORROSIVE LIQUID, N.O.S. (zinc chloride), 8, II, ENVIRONMENTALLY HAZARDOUS |

14.3. Transport hazard class(es)
8 8 8 8 8

14.4. Packing group
II II II II II
### Environmental hazards

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
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<tbody>
<tr>
<td>14.5</td>
<td>Danger for the environment : Yes</td>
<td>Dangerous for the environment : Yes</td>
<td>Dangerous for the environment : Yes</td>
<td>Dangerous for the environment : Yes</td>
</tr>
<tr>
<td></td>
<td>Marine pollutant : Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.6</td>
<td>Special precautions for user</td>
<td></td>
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</tbody>
</table>

#### Overland transport
- Classification code (ADR): C9
- Special provisions (ADR): 274
- Limited quantities (ADR): 1L
- Excepted quantities (ADR): E2
- Packing instructions (ADR): P001, IBC02
- Mixed packing provisions (ADR): MP15
- Portable tank and bulk container instructions (ADR): T11
- Portable tank and bulk container special provisions (ADR): TP2, TP27
- Tank code (ADR): L4BN
- Vehicle for tank carriage: AT
- Transport category (ADR): 2
- Hazard identification number (Kemler No.): 80
- Orange plates: 1760
- Tunnel restriction code (ADR): E
- EAC code: 2X
- APP code: B

#### Transport by sea
- Special provisions (IMDG): 274
- Limited quantities (IMDG): 1 L
- Excepted quantities (IMDG): E2
- Packing instructions (IMDG): P001
- IBC packing instructions (IMDG): IBC02
- Tank instructions (IMDG): T11
- Tank special provisions (IMDG): TP2, TP27
- EmS-No. (Fire): F-A
- EmS-No. (Spillage): S-B
- Stowage category (IMDG): B
- Stowage and handling (IMDG): SW2
- Properties and observations (IMDG): Causes burns to skin, eyes and mucous membranes.
- MFAG-No: 154

#### Air transport
- PCA Excepted quantities (IATA): E2
- PCA Limited quantities (IATA): Y840
- PCA limited quantity max net quantity (IATA): 0.5L
- PCA packing instructions (IATA): 851
- PCA max net quantity (IATA): 1L
- CAO packing instructions (IATA): 855
- CAO max net quantity (IATA): 30L
- Special provisions (IATA): A3
- ERG code (IATA): 8L

#### Inland waterway transport
- Classification code (ADN): C9
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Special provisions (ADN) : 274
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

- Rail transport
  Classification code (RID) : C9
  Special provisions (RID) : 274
  Limited quantities (RID) : 1 L
  Excepted quantities (RID) : E2
  Packing instructions (RID) : P001, IBC02
  Mixed packing provisions (RID) : MP15
  Portable tank and bulk container instructions (RID) : T11
  Portable tank and bulk container special provisions (RID) : TP2, TP27
  Tank codes for RID tanks (RID) : L4BN
  Transport category (RID) : 2
  Colis express (express parcels) (RID) : CE6
  Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F methanol

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
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<table>
<thead>
<tr>
<th>IATA</th>
<th>International Air Transport Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>LC50</td>
<td>Median lethal concentration</td>
</tr>
<tr>
<td>LD50</td>
<td>Median lethal dose</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative Toxic</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the International Carriage of Dangerous Goods by Rail</td>
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#### Data sources:


#### Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Dermal)</th>
<th>Acute toxicity (dermal), Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation)</td>
<td>Acute toxicity (inhal.), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral), Category 3</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral), Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Met. Corr. 1</td>
<td>Corrosive to metals, Category 1</td>
</tr>
<tr>
<td>Press. Gas</td>
<td>Gases under pressure</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation, Category 1A</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation, Category 1B</td>
</tr>
<tr>
<td>STOT SE 1</td>
<td>Specific target organ toxicity — single exposure, Category 1</td>
</tr>
<tr>
<td>STOT SE 2</td>
<td>Specific target organ toxicity — Single exposure, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour</td>
</tr>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs</td>
</tr>
<tr>
<td>H371</td>
<td>May cause damage to organs</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Calculation method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corr. 1B</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 2</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

10/13/2016 EN (English) 9/9