

# LCID Example 1a - Introduction

## 1. Purpose of the example

The purpose of this example is to illustrate how the results of the “example 2” of the REACH Practical Guide<sup>1</sup> can be embedded in the main body of a Safety Data sheet (SDS). Like for the example in the guide, only the toxicological part is taken into account for this representation. Please note that there is an SDS provided in parallel, which uses exactly the same content, but provides the information in the annex of the SDS. As opposed to the practical guide, a complete scenario with all PROCs has been selected and the corresponding RMMs and OCs are provided in this example.

The example is very generic but still an ideal illustration of how LCID can be applied. Nevertheless, as a limiting requirement, the example is based on the assumption that the addressed scenario with corresponding OCs and RMMs is available for all components.

## 2. Mixture information

### 2.1. Information on the mixture

<b>Composition:</b>	Methanol Propanol	 >= 25 % - <= 50 % >= 50 % - <= 75 %
<b>Classification of the mixture:</b>	H319 Causes serious eye irritation H336 May cause drowsiness or dizziness H370 Causes damage to organs H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled	
<b>Use of the mixture:</b>	Use as cleaning agent (industrial application)	

### 2.2. Hazardous substances entering in the composition of the mixture

Substance	DNELs	CLP classification
<b>Methanol</b>	Worker, LT, systemic, dermal: 20 mg/kg Worker, LT, systemic, inhal.: 130 mg/m <sup>3</sup>  Only relevant DNELs provided	Acute Tox. 3 (Inhalation - vapour) Acute Tox. 3 (oral) Acute Tox. 3 (dermal) STOT SE 1  SCLs: STOT SE 2: 3 - < 10 % STOT SE 1: >= 10 %
<b>Propanol</b>	Worker, LT, systemic, dermal: 888mg/kg Worker, LT, systemic, inhal.: 500mg/m <sup>3</sup>  Only relevant DNELs provided	Eye Dam./Irrit. 2 STOT SE 3 (drowsiness and dizziness)

<sup>1</sup> REACH Practical Guide on Safe Use Information for Mixtures under REACH – The Lead Component Identification (LCID) Methodology  
<http://www.cefic.org/Documents/IndustrySupport/REACH-Implementation/Guidance-and-Tools/REACH-Practical-Guide-on-Safe-Use-Information-for-Mixtures-under-REACH-The-LCID-Methodology.pdf>

### 3. Outcome of the LCID methodology

<b>Lead component systemic effects (dermal and inhalation)</b>	Methanol
<b>Additional local effects</b>	Eye irritation

### 4. OC and RMM associated to Lead Component for the selected use

This example covers the hypothetical industrial use in cleaning agents which includes PROCs 1, 2, 3, 7, 8a, 8b, 10, and 13. RMMs and OCs from the lead component have been collected from these PROCs of the lead component. Basically, the worst case for all RMMs and OCs has been selected and included in section 8.2. Spray applications have been assessed separately in this section. Eye protection based on the local effects of propanol have been added. The PROC number, RMM effectiveness, and concentration used in the scenario is not provided, since it does not add any helpful information in this consolidated version.

### 5. Consolidated OC/RMM for the mixture

Eye protection: Safety glasses

# Example 1a - Safety Data Sheet content

Extract of relevant safe use information derived by application of the LCID methodology

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

### 1.1. Product identifier

#### Embedded Expo

Chemical name: Mix  
CAS Number: 9999-88-7

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

Use as cleaning agent (industrial application)

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

Company:  
LCID Ltd  
Europe

Telephone: +xx xxx xx-x  
E-mail address: info@lcid-ltd.com

### 1.4. Emergency telephone number

International emergency number:  
Telephone: +xx xxx xx-x

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 3 (Inhalation - vapour)  
Acute Tox. 3 (oral)  
Acute Tox. 3 (dermal)  
Eye Dam./Irrit. 2  
STOT SE 1  
STOT SE 3 (Vapours may cause drowsiness and dizziness.)

H319, H336, H370, H301 + H311 + H331

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

### Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:  
Danger

Hazard Statement:

- H319
- H336
- H370
- H301 + H311 + H331
- Causes serious eye irritation.
- May cause drowsiness or dizziness.
- Causes damage to organs.
- Toxic if swallowed, in contact with skin or if inhaled

Precautionary Statements (Prevention):

- P271
- P280
- P260
- P270
- P264
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not breathe dust/gas/mist/vapours.
- Do not eat, drink or smoke when using this product.
- Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

- P311
- P305 + P351 + P338
- P304 + P340
- P301 + P310
- P303 + P352
- P361 + P364
- P330
- Call a POISON CENTER or doctor/physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN (or hair): Wash with plenty of soap and water.
- Take off immediately all contaminated clothing and wash it before reuse.
- Rinse mouth.

Precautionary Statements (Storage):

- P403 + P233
- P405
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.

Precautionary Statements (Disposal):

- P501
- Dispose of contents/container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 %, Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 %, Inhalation - mist

## 2.3. Other hazards

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

Hazardous ingredients (GHS)  
according to Regulation (EC) No. 1272/2008

methanol

*Lead component*

Content (W/W): $\geq 25\%$ - $< 50\%$	Flam. Liq. 2
CAS Number: 67-56-1	Acute Tox. 3 (Inhalation - vapour)
EC-Number: 200-659-6	Acute Tox. 3 (oral)
INDEX-Number: 603-001-00-X	Acute Tox. 3 (dermal)
	STOT SE (Central nervous system, Optic nerve)
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	H225, H311, H331, H301, H370
	<u>Specific concentration limit:</u>
	STOT SE 2: 3 - $< 10\%$
	STOT SE 1: $\geq 10\%$

propan-2-ol; isopropyl alcohol; isopropanol

*Local effect*

Content (W/W): $\geq 50\%$ - $< 75\%$	Flam. Liq. 2
CAS Number: 67-63-0	Eye Dam./Irrit. 2
EC-Number: 200-661-7	STOT SE 3 (drowsiness and dizziness)
INDEX-Number: 603-117-00-0	H225, H319, H336

### 3.2. Mixtures

Not applicable

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## SECTION 4: First-Aid Measures

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## SECTION 5: Fire-Fighting Measures

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## SECTION 6: Accidental Release Measures

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## SECTION 7: Handling and Storage

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

## 67-56-1: methanol

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

TWA value 260 mg/m<sup>3</sup> ; 200 ppm (OEL (EU))

indicative

Components with DNEL

## 67-56-1: methanol

worker: Long-term exposure- systemic effects, dermal: 20 mg/kg  
 worker: Short-term exposure - systemic effects, dermal: 20 mg/kg  
 worker: Long-term exposure- systemic effects, Inhalation: 130 mg/m<sup>3</sup>  
 worker: Short-term exposure - systemic effects, Inhalation: 130 mg/m<sup>3</sup>  
 consumer: Long-term exposure- systemic effects, oral: 4.0 mg/kg  
 consumer: Short-term exposure - systemic effects, oral: 4.0 mg/kg  
 consumer: Long-term exposure- systemic effects, dermal: 4.0 mg/kg  
 consumer: Short-term exposure - systemic effects, dermal: 4.0 mg/kg  
 consumer: Long-term exposure- systemic effects, Inhalation: 26 mg/m<sup>3</sup>  
 consumer: Short-term exposure - systemic effects, Inhalation: 26 mg/m<sup>3</sup>

## 67-63-0: propan-2-ol; isopropyl alcohol; isopropanol

worker: Long-term exposure- systemic effects, dermal: 888 mg/kg  
 worker: Long-term exposure- systemic effects, Inhalation: 500 mg/m<sup>3</sup>  
 consumer: Long-term exposure- systemic effects, dermal: 319 mg/kg  
 consumer: Long-term exposure- systemic effects, Inhalation: 89 mg/m<sup>3</sup>  
 consumer: Long-term exposure- systemic effects, oral: 26 mg/kg

**8.2. Exposure controls***Assumption:**Concentration used for calculation  $\geq$  LC concentration (or  $C_{weighted}$ , if applicable)*Technical protective equipment

Provide local exhaust ventilation to control vapours.

In case of spray applications: Provide a good standard of general ventilation.

*Lead compound information*Personal protective equipment

Hand protection:

Wear chemical resistant protective gloves.

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding &gt; 480 minutes of permeation time according to EN 374):

butyl rubber (butyl) - 0.7 mm coating thickness

fluoroelastomer (FKM) - 0.7 mm coating thickness

Polyethylene-Laminate (PE laminate) - ca. 0.1 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding &gt; 30 minutes of permeation time according to EN 374)

chloroprene rubber (CR) - 0.5 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Respiratory protection

In case of spray applications, use Gas filter for gases/vapours of organic compound (boiling point < 65°Cm e.g, EB 14387 Type AX) or, for long-term use and/or higher concentrations, use self-contained breathing apparatus.

Eye protection:

Safety glasses

*RMM for local effects*General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

*Lead compound information*

Regular inspection and maintenance of equipment and machines.

Data in section 8.2 refer to the lead component: Methanol (CAS 67-56-1). Local effects have additionally been considered.

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## SECTION 9: Physical and Chemical Properties

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## SECTION 10: Stability and Reactivity

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## SECTION 11: Toxicological Information

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## SECTION 12: Ecological Information

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## SECTION 13: Disposal Considerations

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## SECTION 14: Transport Information

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## SECTION 15: Regulatory Information

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## SECTION 16: Other Information

Relevant exposure scenario information for the components of this mixture has been included in section 7 and/or 8 of this SDS and therefore no annex is provided.

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