Designing chemical mixtures with the least possible impact on health and environment

Laurence BOULANGE, EIFFAGE Infrastructures
Risk Prevention Policy of EIFFAGE INFRASTRUCTURES

Achieve the « 100 % Safety », our life-long goal
Design, use, products with the least amount of health impacts,
Eliminate or substitute any dangerous chemical whenever technically possible,
EIFFAGE INFRASTRUCTURES, official Partner of EU-OSHA
Ensure the health protection of the public, the local residents, the employees

Ensure the environment protection of the production sites and the work area

Ensure the neutrality of the products to the customers

The development of innovative road products requires effort of research and innovation on several years
- Computerised tool that assists the formulation of chemical mixtures,
- Helps design finished products with the least amount of health and environmental impacts, even before handling or tests in our laboratories
- Propose some substitutes
- Indicates the substances that require special conditions of storage and transport at the product design stage
- Product of the CLP calculations according to GHS/CLP rules
- Allow a better control of raw materials
- Secure all the production line
Different Modules

Available in EN / FR / SP
Formula calculator

Classification of acute risks

Not classified for acute toxicity

Classification of chronic risks

H412 Chronic toxicity category 3

Health classification

Incidence calculation

www.healthy-workplaces.eu
CLP calculation

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS CE No.</th>
<th>Exposure component</th>
<th>Concentration [%] in substance</th>
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<tbody>
<tr>
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**Environmental classification**

**Acute toxicity**

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**H412 Chronic toxicity category 3**

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**Skin corrosion/irritation**

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**Eye damage/irritation**

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**Additional notes:**

- Contains 2-(1-Methylethyl) isocyanate, may produce an allergic reaction.
- Corrosivity according to Table 5.6.3 and 5.6.4. Regulation 504/2011 Not labelled
- Reproductive toxicity based on Tables 7.7.2 and 7.7.3 CLP regulation 504/2011 Not labelled
- Specific target organ toxicity single exposure: STOT RE1 tables 3.1, 3.2 and 3.4 CLP regulation 504/2011 Not labelled
- Specific target organ toxicity repeated exposure: STOT RE2 according to tables 3.8.2 and 3.8.4 CLP regulation 504/2011 Not labelled
- Apetition hazard according to Table 3.10.9 CLP regulation 504/2011 Not labelled

**Risk to health**

- May be fatal if swallowed and enters airways.
Design chemical mixture

+ Third module editing MSDS

www.healthy-workplaces.eu
For further details: Website EU-OSHA Good practice exchange platform
OBJECTIVE

100% SAFETY

IS OUR LIFE-LONG GOAL

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