Update RISK-ASSESSMENT
BASF Class Tankcontainer
Joint Coordination Group of Experts
9-11th September / Bern
B-TC & iCTW are certified and approved since June 2015 for the transport of dangerous goods

In January 2018 BASF agreed to conduct a Risk-Assessment according to CSM – VO (EU) 402/2013

Scientific investigations have been conducted between since 08/18, supported by TU Berlin

The independent assessments is currently conducted by BV. Verification expected by end of 09/2019
Comparison and Assessment of the innovative Intermodal System (B-TC & iCTW)

- Based on technical documentation

Experimental trails

- Different loadings
- Data collection of forces and accelerations

Modelling and simulation of the driving behaviour

- Simulation of system limits
- Based on collected and technical data

FE-modelling and analysis

- Simulation between different systems
- Detection of particular stressed positions

Impact-Tests

- Overriding Impact-Test of different equipment
- Voluntarily and additionally to CSM requirements

Longterm trails for data collection in different driving situations

- 3D-acceleration data
- Voluntarily and additionally to CSM requirements
Risk-Assessment – Upcoming procedure

Suggestions to adapt existing regulations, e.g.:

• Additional safety measures for distinct chemicals

• Minimum filling degree in rail transport (80/20 regulation for tank containers)
- BASF

We create chemistry