

SAFETI™

The right choice for safety professionals

DNV's Safeti software provides a user-friendly, industry standard method for carrying out quantitative risk analysis (QRA) of onshore process, chemical and petrochemical facilities or analysis of chemical transport risk. Safeti allows you to quickly identify major risk contributors. Time and effort can then be directed to mitigating these highest risk activities.



Managing asset integrity risk

Safeti is by far the most advanced tool available for quantifying process plant risks. It is designed to perform all the analytical, data processing and results presentation elements of a QRA within a structured framework. Join the growing list of clients who have benefited from the expertise and knowledge built into Safeti, the industry standard, for more than 30 years

Benefits include:

- Facilitates cost reduction in terms of losses and insurance
- Risk ranking and hazard zone identification for guidance concerning possible mitigation including operation, emergency response or land use planning
- Provides traceability and consistency in calculations
- Generates FN Curves for comparison with user-defined acceptance criteria
- Incorporates the consequence modelling of Phast for hazard analysis
- Enables the integration of QRA into your plant lifecycle management activities

Assessment of flammable, explosive and toxic impact

Safeti analyses complex consequences from accident scenarios, taking account of local population, land usage and weather conditions, to quantify the risks associated with the release of hazardous chemicals. Safeti incorporates the industry standard consequence modelling of Phast.

Features in Safeti

- Integrated dispersion modelling
- Wide range of toxic and flammable effect models
- Calculate various risk metrics - Individual Risk, Potential Loss of Life, FN Curves etc.
- Incorporates risk contour and FN curve generation
- Risk ranking of failure scenarios
- Ignition source input and population data definition

User friendly

- Links to Microsoft® Office family tools
- Online help system and dedicated helpdesk
- Produces easy-to-read results in a graphical format
- Facility to overlay results on geographical information systems (GIS), aerial maps, plans and photographs

Safeti is used for:

- Strategic planning
- Facility siting and layout
- Inventory management
- Safety case preparation
- Risk management
- Regulatory compliance
- Operational improvement and optimization
- Chemical transport risk analysis
- Above ground/buried pipeline QRA
- QRA of hazardous installations/facilities



Aerial photograph of a chemical plant including individual risk shown as iso-contours