



SAFER products allow Emergency Managers to prepare for and respond to, mitigate and recover from release events in the most efficient and effective ways possible. SAFER One® RT now packages that capability in a browser based platform with a new more intuitive interface with industry leading enhancements.

SAFER One® RT Enhancements

FEATURES

- Lower cost, annual subscription, SaaS licensing
- Browser-based, anywhere, anytime access
- Login from anywhere to check on plant conditions
- System database admin console
- Automatic / on-demand patches, fixes and system updates
- Greater ease and flexibility for training installs
- Customizable, Google-based, satellite map imagery, GIS and receptor databases
- Intuitive "click on map" event management interface
- Live meteorological, sensor and traffic data
- Run multiple scenarios simultaneously in different browser windows
- ERG based HazMat, BLEVE and IED initial hazard assessment add-on
- Built in collaboration, event sharing and reporting tools
- Functionality customized to your site's specific risk profile

FEATURES

- Live Met & Sensor Data Acquisition
- Real-Time Plume Modeling
- Always-On Monitoring & Logging
- Source Area Locator™ (SAL)
- Advanced Back Calculation™ (ABC)
- Combustion Analysis Model™ (CAM)
- High Resolution Facility Imagery
- Custom Scenario Management
- Custom Receptor Lists
- Lightning Detection & Warning
- Personnel Tracking & Reporting
- Database 700+ Chemicals

FULL SUITE OF MODELS

- Puddle and Pool
- Tank and Pipe
- Stack and Jet
- Multi-Component Evaporation
- Dispersion
- Building Infiltration & Exfiltration
- Complex Terrain Windfield
- Fire and Explosion
- Particulate Dispersion and Deposition

APPLICATIONS

Real-Time
Emergency
Response

Live
Training
Drills

Workforce
Protection

Risk
Mitigation

Post Event
Analysis



PATENTED MODELING ALGORITHMS

Advanced Back Calculation™

An estimation of the release rate from a user-specified source location or a location calculated by the Source Area Locator™ (SAL). By specifying the chemical, location of the event, and actual measured downwind concentrations, Real-Time® can estimate the release rate.

Source Area Locator™

Source Area Locator™ (SAL) pinpoints the source of a chemical release using meteorological data and two or more concentration measurements from the chemical released.

Combustion Analysis Model™

The Combustion Analysis Model™ (CAM) is a first of its kind analysis and decision support tool for those involved in preparing for, responding to and assessing the health, safety and environmental impacts of industrial and transportation incident related chemical fires.



SAFER One® RT

Illustrated Overview

1. Browser based deployment for anywhere, anytime access

2. “Click on Map” user control

3. Incident Reporting/Traffic/Measurement Tools

4. Snapshot/Footprint Time Control

5. Incident details & update and run panel

6. Incident & Chemical ID with concentrations & distances

7. Color coded potentially impacted places

8. Vertical dispersion profile

9. Meteorology

10. GIS/scenario/emission source search tool

11. Wind shifted plume snapshot @ 50 minutes

12. Total Impacted Area over 2 hours

The screenshot displays the SAFER One RT software interface. At the top, there's a navigation bar with 'Go To' and 'Administration' tabs, and a search bar. Below this is a 'Tank Release Event' card for an 'AAA Chlorine Cylinder Fusible Plug Failure' at 'Fort Saskatchewan'. The card includes fields for Toxicity (0.5 ppm), Distance (4.24 km), and Chemical (Chlorine). It also shows 'ERG Guide 124' and a map location. A red circle labeled '1' is placed over the 'Go To' tab.

The main area features a map of Fort Saskatchewan with several colored plumes indicating affected areas. A red circle labeled '2' is placed over the 'Map Location' button in a modal window. Another red circle labeled '3' is placed over the 'Snapshot' button in the bottom right corner of the map area.

To the right of the map is a vertical stack of four windows: 'Plume Vertical Profile' (red circle '8'), 'Manual Input' (red circle '9'), 'Possible Impacted Places' (red circle '7'), and a timeline showing '9:45 (50 min)' (red circle '4').

At the bottom right, there's a 'Google' logo and a copyright notice: 'Map data ©2016 Google. Imagery ©2015, Creal/Spot Image, DigitalGlobe, Landsat'.

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