2020

SAFETECH Synergy

Elevating **QHSE** with Industry Best **Technology!**

Presented by ITRAK

Thursday, May 28 1:45 PM (MST)

Partner Connection: Chemscape and ITRAK 365 – SDS and Safety

ISV Connect Premier Tier Partner

ITRAK 365

Microsoft Dynamics 365 Certified

Microsoft

www.useitrak.com

Integrating ITRAK with SDS and Chemical Hazard Management

Partner: chemscape SAFETY TECHNOLOGIES

Technology company with a team of Industrial Hygienists providing expert guidance since 2003

Eliminate Chemical Complexity and Confusion

Agenda:

- Why chemicals cause complexity
- How technology simplifies compliance
- How data helps you identify hazards and manage risk
- Simplify action with icons
- Have a plan to measure success

ITRAK 365

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INTRODUCTIONS

Mike Phibbs CIH ROH

President and Founder of
Chemscape Safety Technologies
and Deerfoot Consulting

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Hazardous chemicals are an enormous management challenge for industrial companies

Compliance
Risk Mitigation
Sustainability
Liability

Reputation
Operational goals

Insurance

Worker health

Permits

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You have a large inventory of chemicals

+ Used by multiple employees
+ In multiple work processes
+ Across a range of locations

= You have extreme complexity and continual risk

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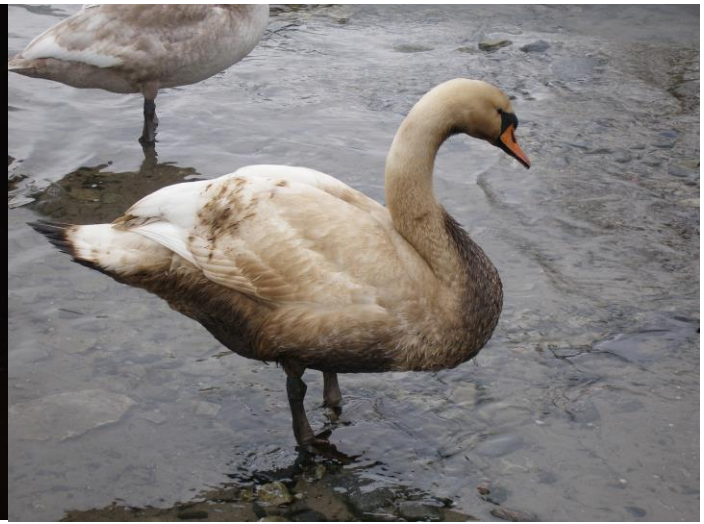
Every day there is the potential for a serious incident that can inflict irreversible damage on your worker health and the corporate reputation.



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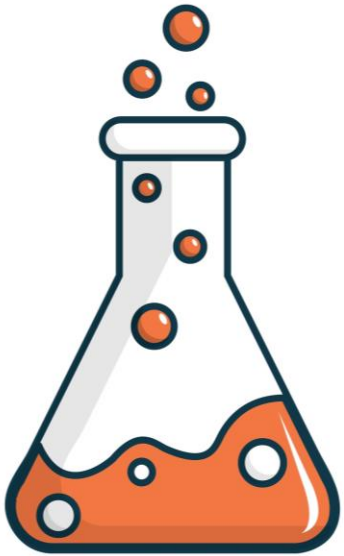
You have countless lurking details to stay on top of -

Potential to derail daily operations as well as major projects and result in severe regulatory consequences

- SDS Management
- Chemical Storage
- Labelling
- Training
- Physical Hazards
- Health Hazards
- Transportation
- Environment



- Waste Management
- Emergency Planning
- Occupational Health
- PPE
- Chemical Inventory
- Hazard Assessments
- Job Planning
- Procurement

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In order to protect workers and maintain efficient operations, you need to stay on top of -

A Mass of Information & Ever-changing Regulations

- Compliance
- Permits
- Reporting

- Operations
- Hazard Communication
- Risk Assessment

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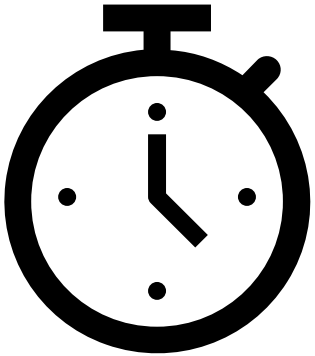
You need time, tools, and knowledge to keep on top of your chemical management:

You need to information that is readily accessible, easy to understand and practical.



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Chemscape has tools to help you reduce health risks and prevent chemical-related work delays.

sdsBinders

- SDS Management
- Mobile

CHAMP

- Hazard Identification
- Risk Assessments
- Chemical Approvals
- Recommended Controls
- Training Courses

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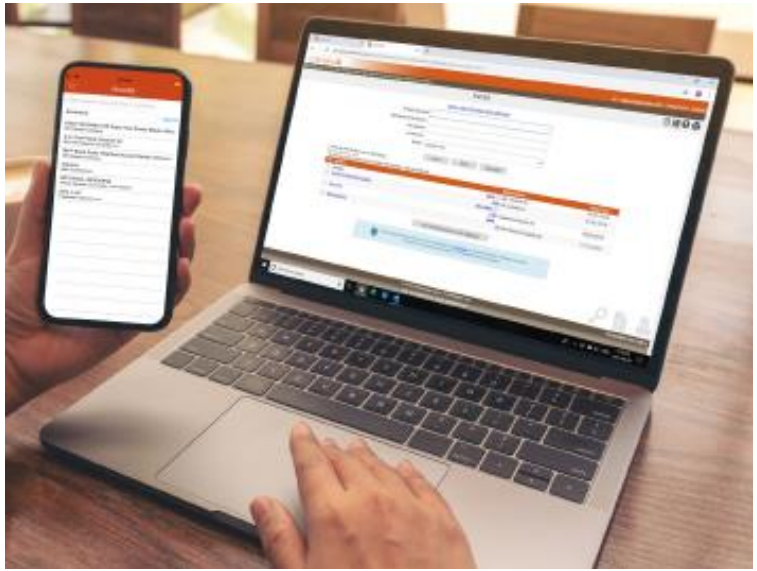
Technology simplifies compliance

sdsBinders

- Immediate Access To Chemical Safety Information
- Save Time Finding SDSs.
- Confidence in the Compliance of your SDS inventory.
- Save Time with SDS Management
- Solid Foundation for Chemical Handing.



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Understanding your chemicals begins with knowing their hazards. Ideally you would have the guidance of an onsite industrial hygienist – just not practical. Until now.

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CHAMP – Chemical Intelligence System **A ground breaking, interactive chemical intelligence system from Chemscape. Designed by an elite team of industrial hygienists, CHAMP gives you 24/7 expert guidance on a host of chemical management issues. Go from SDS Management to Chemical Management**

sdsBinders

CHAMP

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CHAMP asks workers questions on use and calculates how this affects risk

- How is the product used?
- How will the product be used?
- How frequent with the product be used?
- What quantity of the product will be used?
- What is the current work controls and ventilation?

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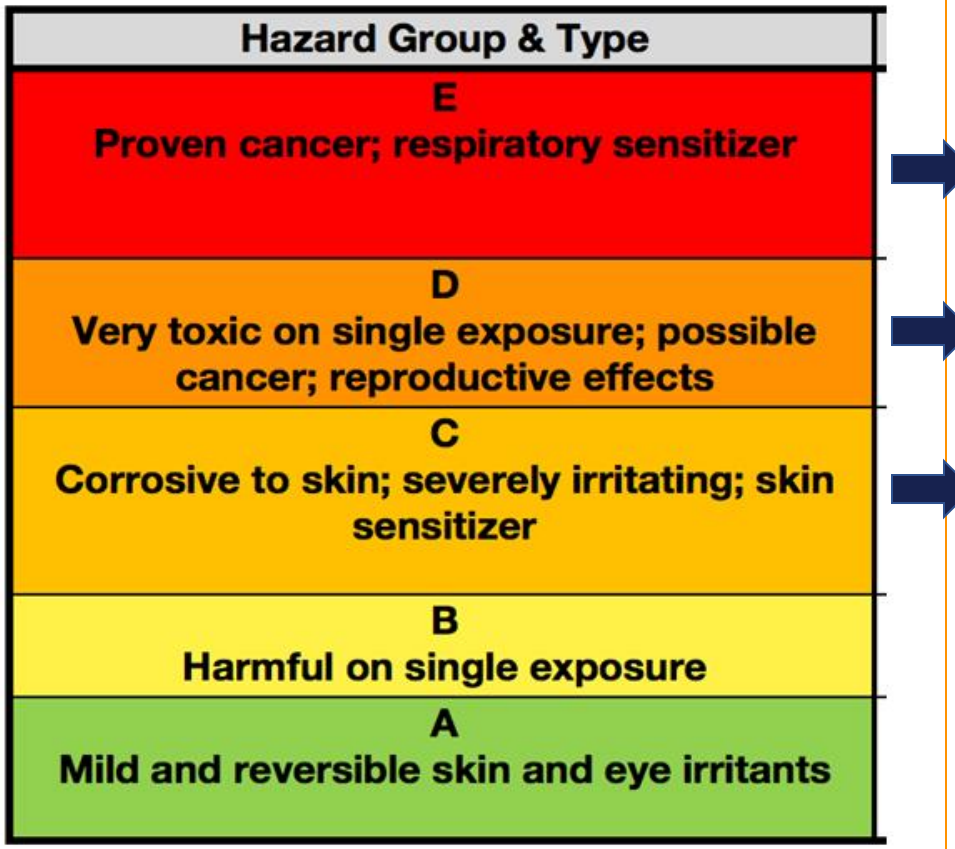
Simplify Hazard Assessments



RUST SCAT ALKYD ENAMEL GLOSS ACCENT BASE

F-1000 Sentry Seal, Sentry Seal Paint UN1263

Clorox Commercial Solutions® Clorox® Clean-Up® Disinfectant Blea

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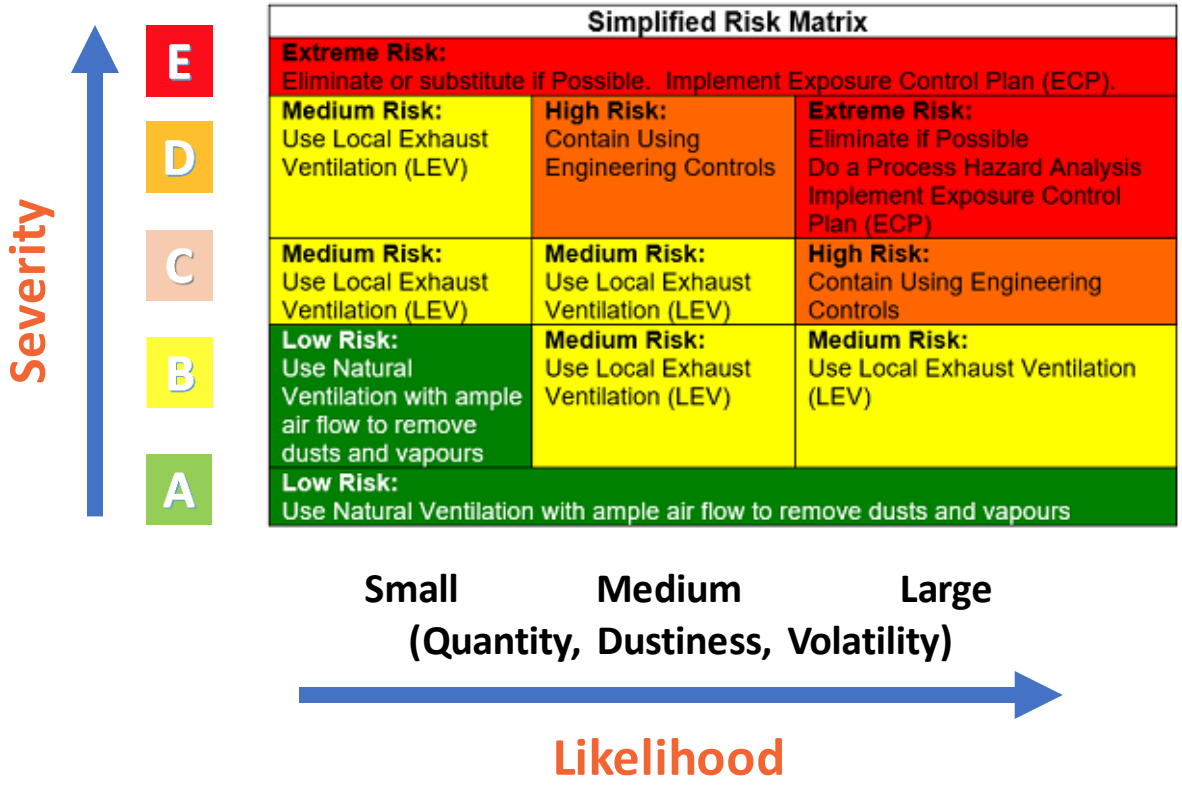
Simplify Risk Assessments



Simplify Control Approaches

Expert Advice plus containment

Containment

Local Exhaust Ventilation

Natural/ General Ventilation

Simplified Risk Matrix		
Extreme Risk: Eliminate or substitute if Possible. Implement Exposure Control Plan (ECP).		
Medium Risk: Use Local Exhaust Ventilation (LEV)	**High Risk:** Contain Using Engineering Controls	**Extreme Risk:** Eliminate if Possible Do a Process Hazard Analysis Implement Exposure Control Plan (ECP)
Medium Risk: Use Local Exhaust Ventilation (LEV)	**Medium Risk:** Use Local Exhaust Ventilation (LEV)	**High Risk:** Contain Using Engineering Controls
Low Risk: Use Natural Ventilation with ample air flow to remove dusts and vapours	**Medium Risk:** Use Local Exhaust Ventilation (LEV)	**Medium Risk:** Use Local Exhaust Ventilation (LEV)
Low Risk: Use Natural Ventilation with ample air flow to remove dusts and vapours		

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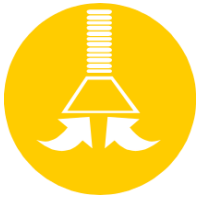
Simplify Control Approaches

Expert Advice (Containment)	Eliminate or substitute if possible. Implement Exposure Control Plan.
Containment	Contain using Engineering Controls
 Local Exhaust Ventilation	Use Local Exhaust (LEV)
Natural Ventilation	Use Natural Ventilation with ample air flow to remove dusts and vapours.

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In every task, every worker needs to know the hazards of the chemicals they're using, what protective equipment to wear and how to work safely.

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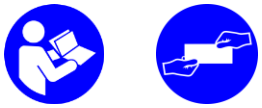
Simplify Action with Icons

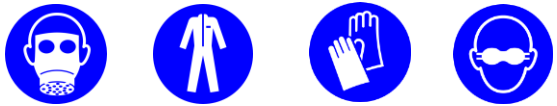
Engineering Controls

Administrative



Preventative

PPE



First aid

Fire

Spills

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24/7 Interactive Guidance on Demand

If a new chemical comes onsite, CHAMP will immediately let you know what protection is needed, or if it should be used at all. This is one example of a SmartChart® downloadable every day / task

chemscape

PRODUCT NAME	PRODUCT USE					HEALTH RISK
AQUAGUARD 211 Guardian Chemicals, Inc.	CORROSION CONTROL					Central Nervous System, Eyes, Kidneys, Liver, Respiratory System, Skin Absorption, Skin Harm
CALCIUM, LIME & RUST CLR Zep Inc / Amrep, Inc	Cleaner					Eyes, Skin Harm
CORRSHIELD MD4159 SUEZ Water Technologies & Solutions Canada (formerly GE Water & Process Technologies)	corrosion inhibitor/deposit control agent.		D44	YES		Eyes, Kidneys, Liver, Respiratory System, Skin Absorption, Skin Harm
Methanol Recochem Inc.			D360	YES		Central Nervous System, Eyes, Prop65-Developmental, Respiratory System, Skin Absorption, Skin Harm
Strip-n-All Thalweast Solutions Inc.	Paint stripper		C28	NO		Blood, Central Nervous System, Eyes, Hematopietic System, Kidneys, Liver, Lymphoid System, Respiratory System, Skin Harm

HEALTH RISK

Central Nervous System, Eyes, Kidneys, Liver, Respiratory System, Skin Absorption, Skin Harm

MINIMUM EXPOSURE CONTROLS -

*This SmartChart is not meant as a replacement for the SDS. Always review the SDS when working with any new or unknown chemical.

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If a vendor tries to sell you a new chemical product, CHAMP will instantly tell you if it is safe to bring on site and what protective measures are needed, or if it is too toxic to even consider.

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Keep routine maintenance and plant turnarounds on schedule – CHAMP lets you plan to prevent risk to avoid crippling delays

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If a regulator ordered you to provide a list of all the products that contained a particular substance, where would you start? With all of the products you have on site, how many days, weeks or months would it take to provide the answer?

CHAMP gives you the answer in seconds.

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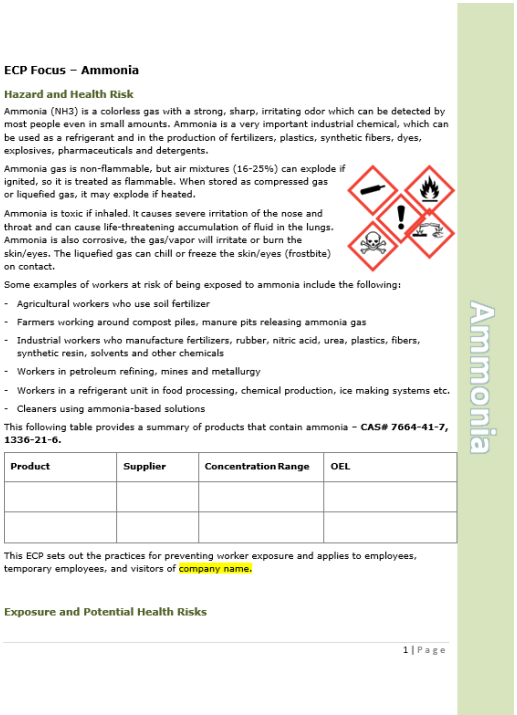
Have a plan to measure success

Meet regulations – CHAMP lets you create custom exposure control plans for your worksites in minutes, without having to hire a high-priced consultant



ECP Focus – Ammonia

Hazard and Health Risk

Ammonia (NH_3) is a colorless gas with a strong, sharp, irritating odor which can be detected by most people even in small amounts. Ammonia is a very important industrial chemical, which can be used as a refrigerant and in the production of fertilizers, plastics, synthetic fibers, dyes, explosives, pharmaceuticals and detergents.

Ammonia gas is non-flammable, but air mixtures (16-25%) can explode if ignited, so it is treated as flammable. When stored as compressed gas or liquefied gas, it may explode if heated.

Ammonia is toxic if inhaled. It causes severe irritation of the nose and throat and can cause life-threatening accumulation of fluid in the lungs. Ammonia is also corrosive, the gas/vapor will irritate or burn the skin/eyes. The liquefied gas can chill or freeze the skin/eyes (frostbite) on contact.

Some examples of workers at risk of being exposed to ammonia include the following:

- Agricultural workers who use soil fertilizer
- Farmers working around compost piles, manure pits releasing ammonia gas
- Industrial workers who manufacture fertilizers, rubber, nitric acid, urea, plastics, fibers, synthetic resin, solvents and other chemicals
- Workers in petroleum refining, mines and metallurgy
- Workers in a refrigerant unit in food processing, chemical production, ice making systems etc.
- Cleaners using ammonia-based solutions

This following table provides a summary of products that contain ammonia – **CAS# 7664-41-7, 1336-21-6.**

Product	Supplier	Concentration Range	OEL

This ECP sets out the practices for preventing worker exposure and applies to employees, temporary employees, and visitors of company name.

Exposure and Potential Health Risks

1 | Page

Ammonia

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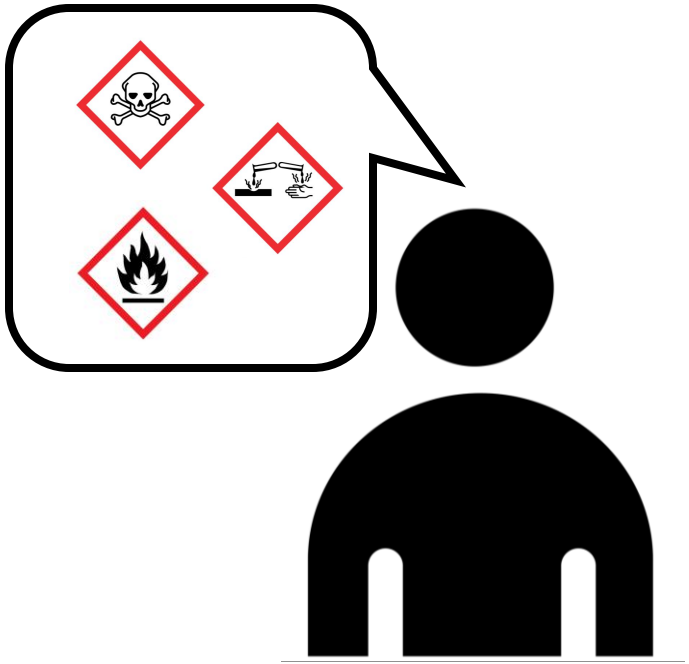
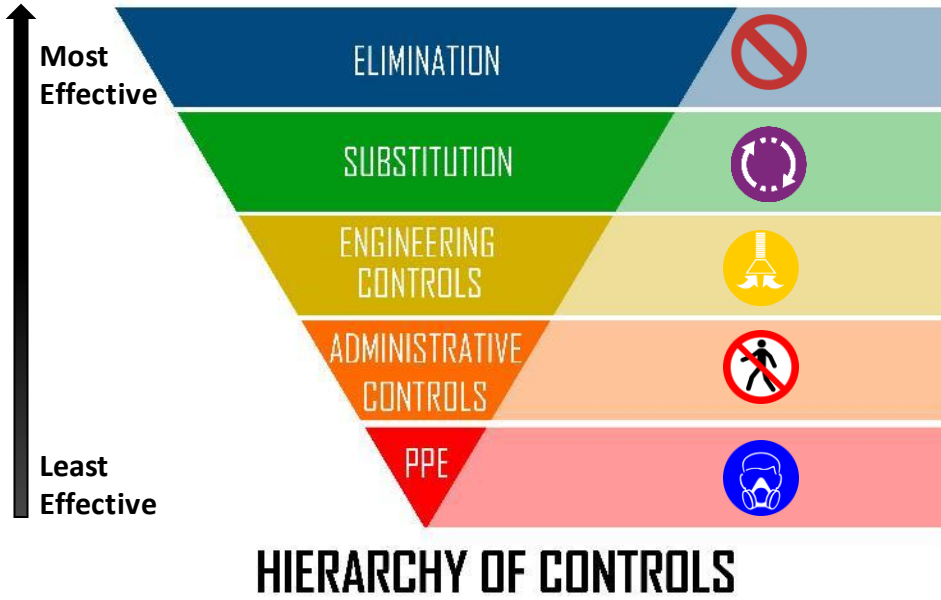
Gain Insight

Master control over all the hazardous chemicals at your worksite. Cut the complexity. Reduce the risk.





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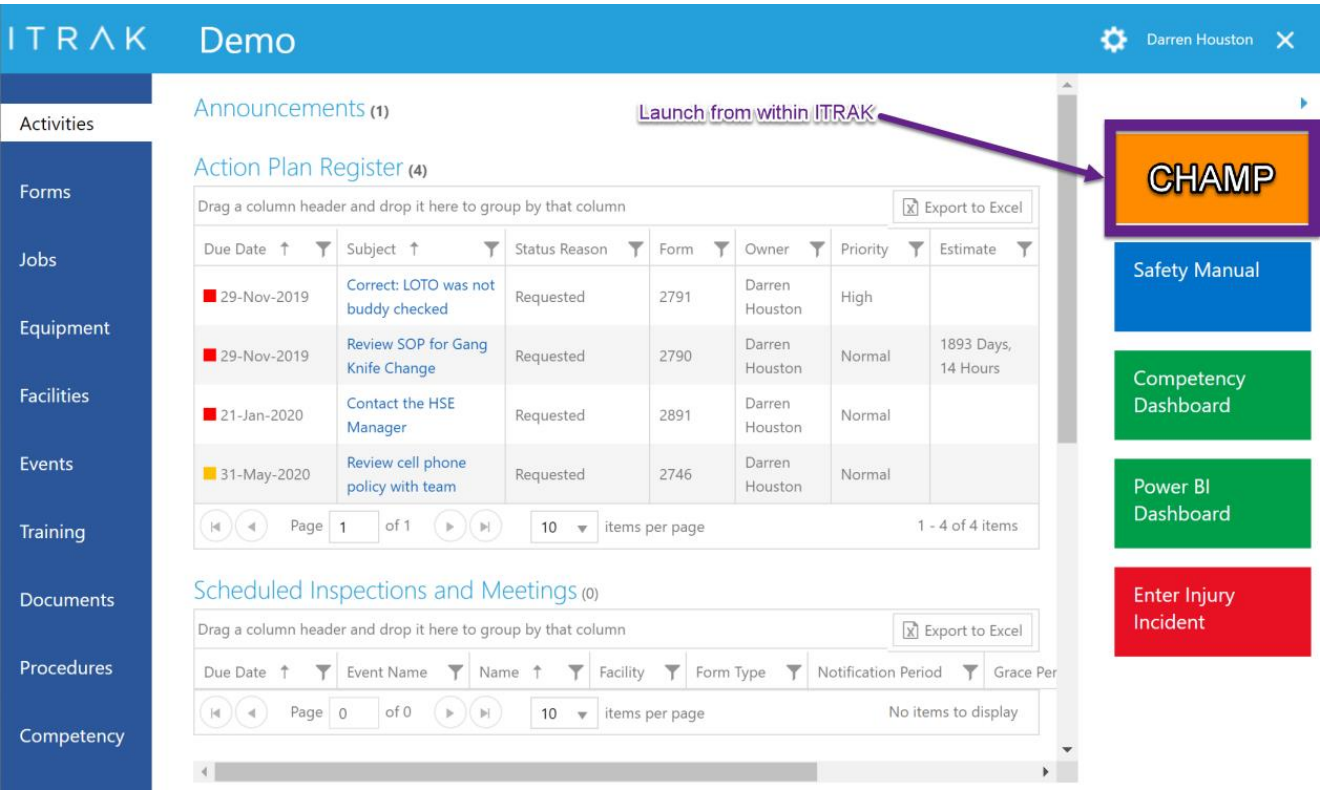
ITRAK and Microsoft Integrations with Chemscape

Chemscape and ITRAK are built on Microsoft; both solutions support SSO through Azure AD

- Launch into sdsBinders/CHAMP and specific SDS documents from ITRAK using Microsoft Azure AD
- Schedule and manage training in ITRAK and complete in CHAMP
- Run chemical MOC processes in ITRAK
- Perform inspections in ITRAK to manage compliance with the identified chemical hazards and controls in CHAMP



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Chemscape and ITRAK Integrations – FUTURE?

If you are using both Chemscape and ITRAK and have ideas for tighter integrations between the two or would like to try a Proof of Concept with your organization – let us know!

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With Chemscape your hazardous chemicals are manageable

Visit our website
www.chemscape.com

Sign up for our newsletter

- **10-min videos on chemical safety**
- **Invites to webinars on WHMIS, TDG, and Chemical Management**

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