

CHEMICAL APPROVALS

MEASURE TWICE. CUT ONCE.

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Your Speakers



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Jerome is the Director of Product Research & Development at Chemwatch with over 6 years experience in the chemicals management marketplace.

His professional experience in chemical risk assessment includes development and deployment of the Chemwatch control banding risk assessment and approval system.

Jerome has advised many companies and government departments on chemical risk management with a particular focus on risk analysis issues and techniques. Jerome holds a B Sc degree in Marine Biology and a Graduate Certificate in Software Project Management.



Claude Neri

Head of Compliance and Research Department, Chemwatch

Claude Neri is the Head of Compliance and Research Department at Chemwatch with over 17 years experience in the chemicals management marketplace.

His professional experience as a Chemical Database Project Technical Manager and Chemical Safety Projects Manager includes the successful management of a wide variety of projects such as chemical database web applications, molecular modeling and QSAR techniques. Claude holds BS degrees in Environmental Management of Hazardous Materials and Mathematics and a MS in Analytical Chemistry.

Chemwatch



We are:

- An international company, headquartered in Australia, with offices throughout Europe, the US and Asia-Pacific
- A large employer of science graduate and postgraduates (including chemists, toxicologists and OHS specialists) and IT specialists (over 250 world-wide)
- A successful company with over 25 years of service to the chemicals safety community
- Thousands of clients globally, including hospitals, research institutes, and government departments.

Chemical Approvals

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OVERVIEW

- To compete in a global marketplace and satisfy evolving customer demands, companies are constantly introducing new products containing new chemicals.
- A multi-staged approval system can help organizations to overcome both internal and external challenges of achieving chemical compliance
- Combining external and internal requirements is challenging for any organization.
- In this webinar we will cover how software technology has evolved to become the perfect platform for Chemical Approvals, governed by workflow.



Chemical Approvals

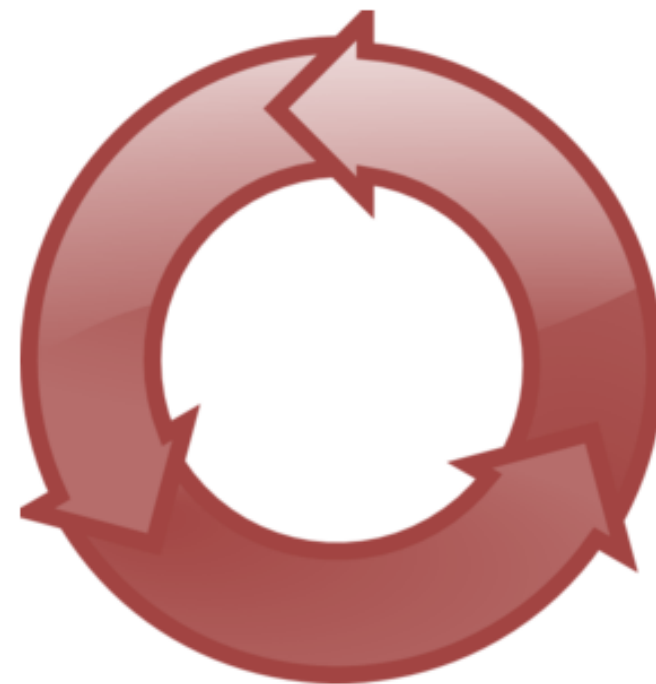
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STARTING THE CHEMICALS MANAGEMENT CYCLE

- The chemicals management cycle starts with the evaluation of products and substances.
- An effective system will provide an integrated approach to chemical approvals, bringing together:
 - Environmental, Health and Safety review
 - Regulatory, Supply Chain and Product Management objectives
 - Organizational Structures, Business Processes and Procedures

In summary, approvals are

- driven by clear objectives, and
- governed by regulations, policies and procedures



Measure Twice. Cut Once.

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THE STORY

ELV regulation in the EU(2000/53/EC).

Article 4 2(a) states

2. (a) Member States shall ensure that materials and components of vehicles put on the market after 1 July 2003 do not contain lead, mercury, cadmium or hexavalent chromium **other than in cases** listed in **Annex II** under the conditions specified therein;



6. Vibration dampers		X
7(a). Vulcanising agents and stabilisers for elastomers in fluid handling and powertrain applications containing up to 0,5 % lead by weight	1 July 2006	Annex II of this regulation offers exemptions to materials to be used in particular applications.
7(b). Bonding agents for elastomers in powertrain applications containing up to 0,5 % lead by weight		
8. Solder in electronic circuit boards and other electric applications		X ⁽ⁱ⁾
9. Copper in friction materials of brake linings containing more than 0,4 % lead by weight	1 July 2007	X
10. Valve seats	Engine types developed before 1 July 2003: 1 July 2007	
11. Electrical components which contain lead in a glass or ceramic matrix compound except glass in bulbs and glaze of spark plugs		X ⁽ⁱⁱ⁾ (for components other than piezo in engines)

Hazard Classification

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BASELINE CRITERIA

Classification of chemicals is a "dark art".

Vendors differ amongst themselves, often, drawing upon similar evidence.

As an example, the EU publishes a database of Classifications called the C&L Inventory (not to be confused with CLP)

Around **120,000** substances has been Classified by close to **4 million** notifiers.

Some substances are represented by more than **30 different "opinions"**

Some mixtures built from these substances may therefore represent **100's of opinions.**



IT'S NOT THE HAZARD. IT'S THE RISK

Hazard Classification

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BASELINE CRITERIA

Where any one substance is produced by two companies, the level of disagreement on the classification of hazard/risk is greater than 50%!

An irritant is an irritant, a toxin is a toxin and a burn is just that. A chemical exhibits the same properties and hazards no matter who supplies it. There should be no grey zone or subjective guess. It's not like picking the richest, aromatic coffee grounds.

	Sigma	Merck	Acros	Fisher	Alfa
Sigma	-	58% (1720/2960)	57% (1798/3165)	58% (3308/5745)	54% (5137/9520)
Merck	58% (1720/2960)	-	61% (565/933)	61% (1148/1890)	63% (1818/2897)
Acros	57% (1798/3165)	61% (565/933)	-	57% (61/107)	56% (1601/2848)
Fisher	58% (3308/5745)	61% (1148/1890)	57% (61/107)	-	60% (3018/5014)
Alfa	54% (5137/9520)	63% (1818/2897)	56% (1601/2848)	60% (3018/5014)	-

IT'S NOT THE HAZARD. IT'S THE RISK

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Chemical Approval Criteria



Review Type	Resources / Information	Actions
REGULATORY	<ul style="list-style-type: none"> Up to date SDS Vendor Ingredient Disclosure Up to date Regulatory Databases Classified Chemical Families 	<ul style="list-style-type: none"> Check each Ingredient against lists of concern Ensure Chemical Families are Covered Ensure Alerts when Regulatory status changes
WORKPLACE HEALTH AND SAFETY	<ul style="list-style-type: none"> Standards and Codes of Practice Safe Use Instructions (SUI) Hazard Assessments (MINI SDS) Risk Assessments Signage and Labeling advice Personal Protection Reports Standard Operating Procedures (SOPs) First Aid and Fire Fighting Reports Spills and Disposal Reports 	<ul style="list-style-type: none"> Place the Chemical into the workplace Assess potential impacts to Workers health and safety Follow Codes of Practice and Standards Ensure appropriate Personal Protection is available Assess Health, Physical risks Ensure Clear Safe Use Instructions are available Ensure First Aid and Emergency information is available Ensure Spills can be contained and managed Ensure Disposal management covers the chemical
GLOBAL HEALTH AND SAFETY	<ul style="list-style-type: none"> Toxicological Reports Expert Review SDS (Peer review) Health Surveillance Requirements Biological Monitoring Requirements Limited Evidence - Latest Research 	<ul style="list-style-type: none"> Expert review of potential impacts to the wellbeing of workers and public Consideration of limited evidence Take into account new research
ENVIRONMENTAL	<ul style="list-style-type: none"> Environmental Reports Reporting Tools (Seveso, SARA,...) 	<ul style="list-style-type: none"> Expert review of environmental Risks Ensuring all the Reporting Requirements will be met Internal Reporting - e.g. Corporate Responsibility, Insurance External Reporting - as required by governing bodies
BUSINESS and OPERATIONAL	<ul style="list-style-type: none"> Forms Attachments Supply Chain implications Distribution Financial 	<ul style="list-style-type: none"> Capture as much information from the REQUESTOR Communicate relevant information, documents and attachments Consider operational aspects and potential implications Distribution and Supply Chain review Financial Review

“Forming” the Approval

TRADITIONALLY, FORMS FORM FORMS



FORM A
REQUEST QUESTIONNAIRE

FORM B
CHEMICAL REVIEW QUESTIONNAIRE

FORM C
WORKPLACE REVIEW QUESTIONNAIRE

FORM D
SIGN OFF QUESTIONNAIRE

Section 1 - Details of Chemical/ Product

Product Substance Name: _____

Supplier/ Manufacturer: _____ **Code:** _____

Risk Assessment By: _____

Purpose of Substance: _____ **Year:** _____

Uses of Substance: _____

MSDS available? Yes No **Less than 1 year old?** Yes No

Form of Substance: Liquid Solid Powder Gas Other: _____

Section 2 - Hazardous Nature of Substance - Review the MSDS and complete table to determine the following:

Identified Categories:

<input type="checkbox"/> Corrosive	<input type="checkbox"/> Carcinogenic	<input type="checkbox"/> Toxic	<input type="checkbox"/> Other
<input type="checkbox"/> Irritant	<input type="checkbox"/> Mutagen	<input type="checkbox"/> Reproductive	
<input type="checkbox"/> Sensitizer	<input type="checkbox"/> Explosive	<input type="checkbox"/> Flammable	

Substances Covered by Regulation (check all substances covered - repeat table entries in the table above):

<input type="checkbox"/> Methyrene Blue (CAS#28830)	<input type="checkbox"/> Acrylonitrile	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Barium
<input type="checkbox"/> Cadmium	<input type="checkbox"/> Chlorate	<input type="checkbox"/> Chromium hexa	<input type="checkbox"/> Acrylonitrile etheric
<input type="checkbox"/> Inorganic chromium	<input type="checkbox"/> Inorganic mercury	<input type="checkbox"/> Inorganic tin	<input type="checkbox"/> Organotin compounds
<input type="checkbox"/> Permethrin (PCP)	<input type="checkbox"/> Thionin	<input type="checkbox"/> Vinyl chloride	<input type="checkbox"/> Polystyrene styrene
<input type="checkbox"/> Lead	Comments:		

Section 3 - Level of Exposure

Possible Routes of Exposure:

<input type="checkbox"/> Ingestion	<input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Injection	<input type="checkbox"/> Eye Contact	<input type="checkbox"/> Injection	<input type="checkbox"/> Possible
<input type="checkbox"/> Inhalation	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Inhalation

Are persons likely to be exposed to the substance? Yes No

If yes, what are the possible exposures to the substance?

<input type="checkbox"/> 1 min	<input type="checkbox"/> 10 mins	<input type="checkbox"/> 10 days	<input type="checkbox"/> 10 years
<input type="checkbox"/> 1 hr	<input type="checkbox"/> 1 day	<input type="checkbox"/> 1 year	<input type="checkbox"/> 10 years

Likely Exposure Routes (tick correct in table):

<input type="checkbox"/> Ingestion	<input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Injection	<input type="checkbox"/> Eye Contact	<input type="checkbox"/> Injection
<input type="checkbox"/> Inhalation	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Inhalation

Are any employees reported to have effects? Yes No

If yes, specify: _____

Controlling such processes, systems and equipment, ensure the following:

<input type="checkbox"/> Is there evidence of contamination?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Dust or fumes settle in the air or on surfaces?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Substance settle on skin or clothing?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Visible signs, taste or residue?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Note: Before using any chemical substance/product, read the MSDS and apply the safe handling, use, storage, and emergency response instructions.

NOTE: All sections are required to be completed with detail in full. The form will be returned to you if incomplete or incorrect. Refer to "Hazardous Materials Approval Procedure" (Q-PP01) for details on the hazardous materials process flow.

Skin Irritant **Sensitising Agent**

Eye Irritant **Carcinogenic**

Central Nervous System (e.g. Dizziness, Drowsiness) **Liver Disease**

Asphyxiant **Kidney Disease**

Respiratory Tract Irritant (e.g. Inhalation) **Brain/Nerve Disease**

Corrosive to Skin/Eyes **Respiratory Disease**

Toxic by Skin Exposure **Reproductive System disease**

Toxic by Ingestion **Other:** _____

Embryonic/Foetal Damage

Section 3 - Health Effects (cont.)

Potential Health Risk	Low (Level 1 or 2)	Moderate (Level 3)	High (Level 4 or above)	Low (Level 1 or 2)	Moderate (Level 3)	High (Level 4 or above)
Skin Contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eye Contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inhalation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Preventive Controls - Hierarchy of controls

- Elimination** - can use of this material be eliminated? Yes No
- Substitution** - can this material be substituted to a low risk material? Yes No
- Isolation and security**
 - Barricade the area
 - Separate from high traffic/offices
 - Separate from other hazards e.g. hot surfaces, other hazardous substances, etc.
 - Containment of spills
- Engineering controls** e.g. local exhaust ventilation
 - Natural ventilation
 - Forced ventilation e.g. Fans/ Exhaust Specify: _____
 - Others Specify: _____
- Administrative controls**
 - Exclusion of personnel
 - Other: _____

QA Form Document No. **SMC112**

Document Title	Hazardous Materials Evaluation and Risk Assessment Form		
Area	Hazardous Materials	Issue Date	30 November 2011
Major Process	HSEC	Sub Process	FSC4 Hazardous Materials
Authoriser	Mark Buttonworth - Manager Environment and Radiation	Version Number	13

NOTE: All sections are required to be completed with detail in full. The form will be returned to you if incomplete or incorrect. Refer to "Hazardous Materials Approval Procedure" (Q-PP01) for details on the hazardous materials process flow.

Section 1 - General details

Name of the material (as in MSDS): _____

Manufacturer's Name: _____

Package size: _____ **Maximum quantity:** _____

Storage Location: _____

Assessment conducted by: _____ **Date of Assessment:** _____

Position Title: _____ **Contact Phone Number:** _____

Company Name & Department: _____

Email: _____

Part 1. Hazardous Substance (Listed in section 2 of MSDS)	Part 2. Dangerous Goods Classification (Listed in section 14 of MSDS)
A. Hazardous Substance <input type="checkbox"/>	A. Dangerous Goods Class _____
B. Non-Hazardous Substance <input type="checkbox"/>	B. Not a Dangerous Goods <input type="checkbox"/>

Combustible Liquid _____ **Subsidiary Risk** _____

(Listed in section 7 or 9 of MSDS) (Listed in section 14 of MSDS)

NOTE: All sections are required to be completed with detail in full. The form will be returned to you if incomplete or incorrect. Refer to "Hazardous Materials Approval Procedure" (Q-PP01) for details on the hazardous materials process flow.

Personal Protective Equipment

Long sleeve pants clothing

Headset

Eye Protection (specify type): _____

Gloves (specify type): _____

Respiratory Protection - to be worn all times worn if ventilation is inadequate

Type of respirator - _____ (Specify type and make)

Dust mask _____ (Specify cartridge type)

Half face respirator _____ (Specify cartridge type)

Albrecht helmet

Dispersion controls

- Eye wash
- Safety shower
- Rescue plan
- Two way radio for communication

Substance Health Risk with controls in place	Low (Level 1)	Moderate (Level 3)	High (Level 4 or above)	Low (Level 1)	Moderate (Level 3)	High (Level 4 or above)
Skin Contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eye Contact	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inhalation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 4 - Storage, Transport and Disposal

Storage: Applicable Not applicable

- Storage complies with relevant Australian Standard specify: _____
- Identify incompatible materials (from MSDS) _____
- Identify segregation requirements _____

Transport

- MSDS or summary MSDS available during transport

Disposal (as per MSDS)

- Return to supplier (Explain) _____
- Site HH disposal process (Explain) _____
- EPA approved service provider (Explain) _____

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Building an Approvals System

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APPROVALS SYSTEM BUILDING BLOCKS

BUILDING BLOCK	FRAMEWORK	SOLUTION
FORMS	Requests, Comments, Checklists and Attachments.	From initial Request to the final Approval, all the necessary information is captured as required by the Organization. Each Stakeholder is forced to provide mandatory information to progress the request to the next stage.
SDS Data & Documents	SDS Management Data Extraction Formulation capture	SDS is the key component of the entire approvals process. This engine drives the Vendor SDS management, Data Extraction, and Formulation capture.
REGULATIONS	Regulatory comparison, alerts and Red Flag automation	The key stage of the approvals journey is to ensure that each substance is checked against relevant Regulatory lists.
REPORTS	Reports, Documents, Tables required during review	With Form and SDS Data captured in a Database, the reports component can calculate, extract and present any combination of data points, or documents, to relevant stakeholders.
ALERTS	High Impact information presented at the right time, to the right stakeholders.	Alerting relevant stakeholders of new and pending requests.
WORKFLOWS	Automation of the Approval Review process. Distributing the relevant information, forms and actions to the right stakeholders.	Creating an Approvals Workflow framework that automates the entire approval process.
ESCALATION	Date, Duration or Special Criteria can drive escalation	Automated escalation based on any criteria captured in the system.
DASHBOARDS	Business Intelligence.	Immediate and up to date view of all requests, approval history, and stakeholder activity.

Forms



APPROVALS SYSTEM BUILDING BLOCKS

Forms are essential to any Approval System.

Any form can be created using the combination of:

- Plain Input Text fields
- Multi-line text fields
- Checkbox fields and menus
- Radio-button fields and menus
- Drop down menus
- Date pickers
- Upload buttons
- Lists

Multiple forms can be assigned to one or many Stakeholders, at any stage of the Approval Process.

Data captured using Forms can be used to:

- Generate Reports and Documents
- Direct the Workflow
- Trigger Alerts and Notifications
- Search the database
- etc.

The image displays two screenshots from a 'Form Builder' application. The top-left screenshot shows a 'TRAINING RECORD' form with the following fields: 'Trainer Full Name' (text input), 'Trainer e-mail address' (text input), 'Training Type' (radio buttons for Verbal, Written Assessment, On-line), 'Assessment Outcome' (checkboxes for Ready To Use, Further training required), and 'Training Assessment Comments' (text area). The top-right screenshot shows a 'STANDARD FIELDS' panel with 'SINGLE LINE TEXT' and 'FANCY FIELDS' (PLAIN TEXT, CHECKBOX, MULTILINE TEXT, CHECKBOXLIST, RADIO LIST, DROPDOWN, LIST, UPLOAD). The bottom screenshot shows a completed form with various dropdown menus and radio buttons, including 'Test Date', 'Test Duration', 'Location', 'Relationship Type', 'Service Provider', 'Assessor', 'Primary Order', 'Type of Intervention', 'Assessor Description', 'Did any factors interfere with assessment?', 'Caregiver Facilitators', 'Child Engagement', 'Caregiver Interrupters', and 'Child Reactivity/Distress'. A 'Submit Data' button is visible at the bottom.

SDS Data & Documents



APPROVALS SYSTEM BUILDING BLOCKS

SDS holds the information fundamental to Chemical Approval processes.

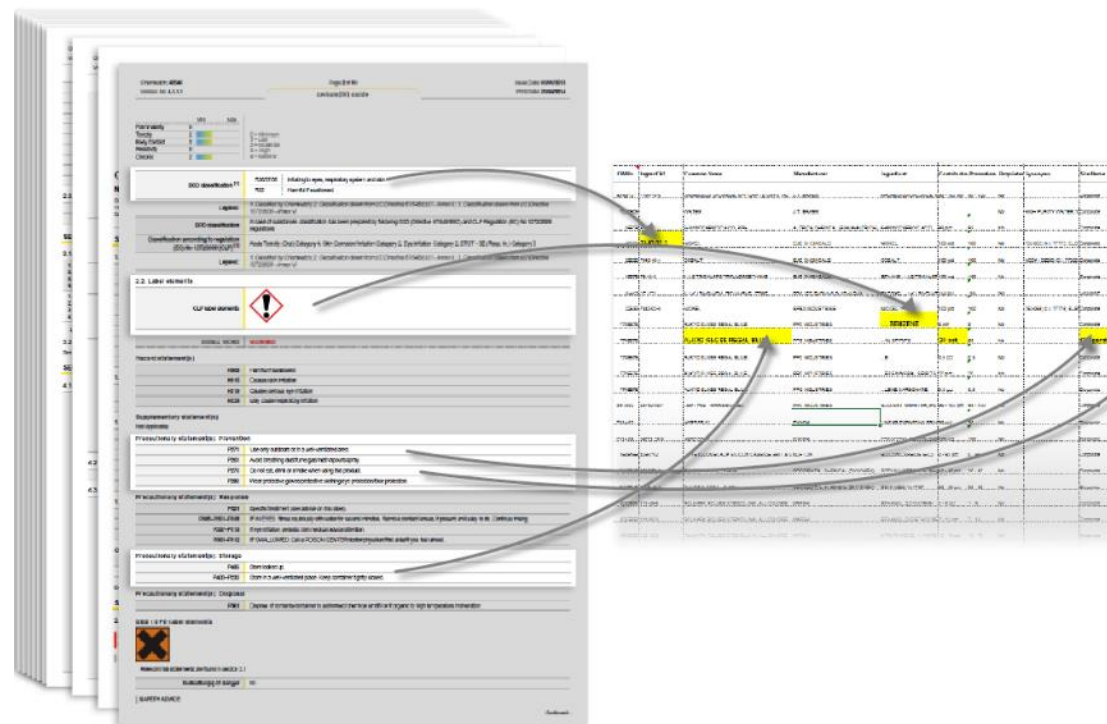
Typically, the SDS is acquired from the supplier of a chemical. Several Data Points from the SDS are of particular interest:

- Ingredient formulation
- Physical Properties
- Transport Information (DG data)
- Hazard Analysis

Based on the above information, an extensive approval review can be done by tapping into:

- Regulatory databases
- Classification rules
- Transport Databases
- Internal Databases

A system will allow these checks to be automated thus streamlining and simplifying the approval process.



Regulations

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APPROVALS SYSTEM BUILDING BLOCKS

One of the most critical parts of the approval process is ensuring you comply with local regulations.

This will generally require the use of a regulatory database.

Depending on the nature of the business, you may require reference to national and global regulations as well.

Having access to a regulatory database has the following advantages:

- Will likely contain regulations outside of your local jurisdiction
- Regulatory data is 'deciduous' - it changes often and requires constant maintenance
- Many regulations make reference to chemical 'families' or groups. Importance of proper indexing so that you capture all regulations pertaining to a substance.
- Regulations come in all shapes and sizes and need to be normalized so that they can be easily searched using various identifiers (CAS, EC, TSCA No., etc.).



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Reports

APPROVALS SYSTEM BUILDING BLOCKS

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Combining the information captured from:

- Forms
- SDS
- Regulations
- Any other available data

Reports building block can generate documents and reports such as:

- Environmental Reports
- Standard Operating Procedures
- Personal Protection Summaries
- Toxicological Reports
- Regulatory Reports

Each Report can be set as one of the key resources to review, requiring sign off, and approval.



Alerts Engine

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APPROVALS SYSTEM BUILDING BLOCKS

Systemised approach to Approvals eliminates short cuts.

Even in a pre-defined workflow, special conditions or situations warrant special responses.

These situations can be:

- Delays in processing
- Significant regulatory concerns (external)
- Internal HSE concerns (High Risk chemicals)
- Financial/Business Risks (Vendor Risk, etc.)

Special conditions can trigger automatic alerts or notifications.

In a time where information overload is considered “normal”, *alerts* mechanism can greatly improve user adoption of an Approvals system.

Facebook, Twitter, and most widely adopted applications utilise notifications and alerts to add “importance” to some content over other.



Workflow

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APPROVALS SYSTEM BUILDING BLOCKS

It is the very Brain of the operation!

Workflows govern, direct and combines all components of an approvals system.

It Directs:

- Approval Stages
- Action sequences
- Transitions between stages

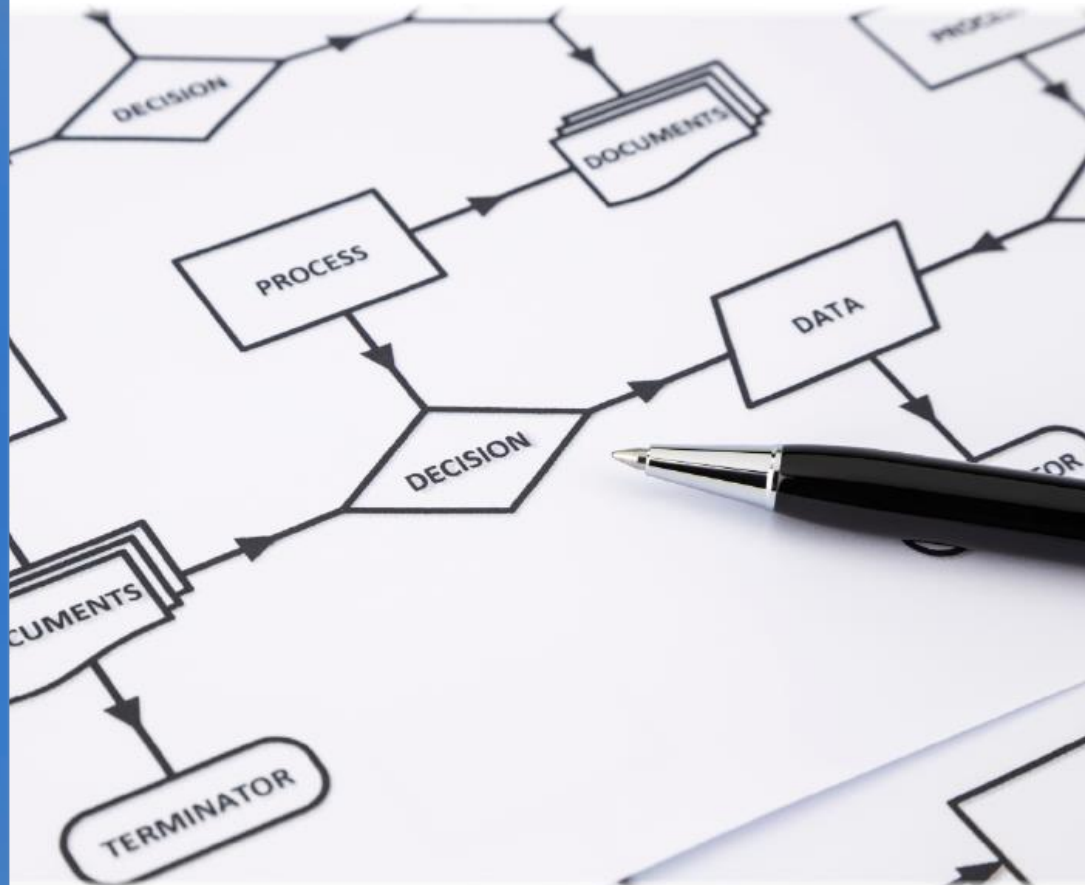
It Governs:

- Approval Rules and Regulations
- Stakeholder tasks and actions

It Combines:

- Forms, documents and reports
- Actions and action streams

Workflows can provide the tools and functionality to translate any *Process* into a systemised stream of tasks, actions and alerts.



Dashboards

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APPROVALS SYSTEM BUILDING BLOCKS

Providing intelligence:

Perhaps best summarised by Peter F Drucker:

“What's measured improves”

Systemisation of any process can greatly improve the efficiency of the operation.

With an immediate access to:

- Summaries of all approval requests
- Durations of review
- Breakdown by stage, task or action
- Number of new requests over time
- Number of resolved requests over time

The administrator will have in-depth knowledge of how the approval system is used.

“If it can be measured, it can be Managed”

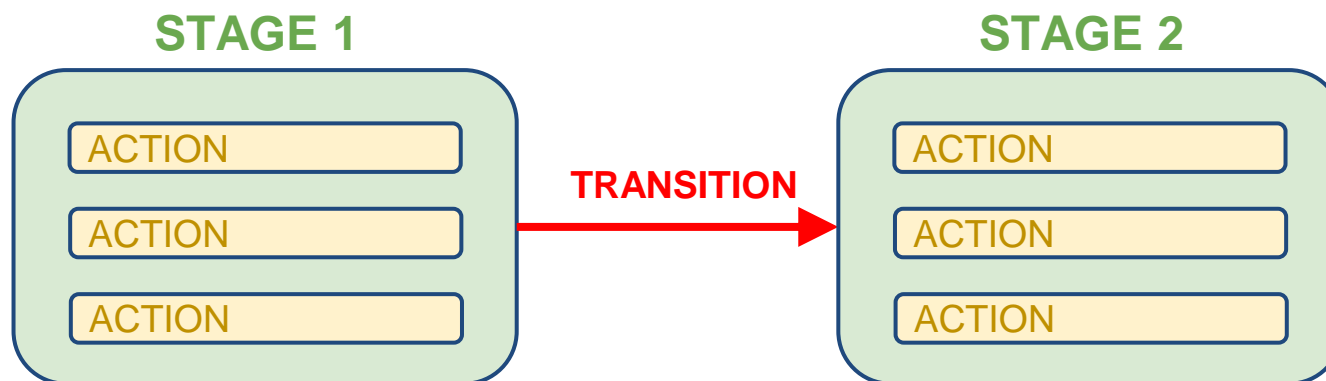
Peter F. Drucker, an Austrian-born American management consultant, educator, and author, whose writings contributed to the philosophical and practical foundations of the modern business corporation.



Approvals Workflow

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THE BASICS



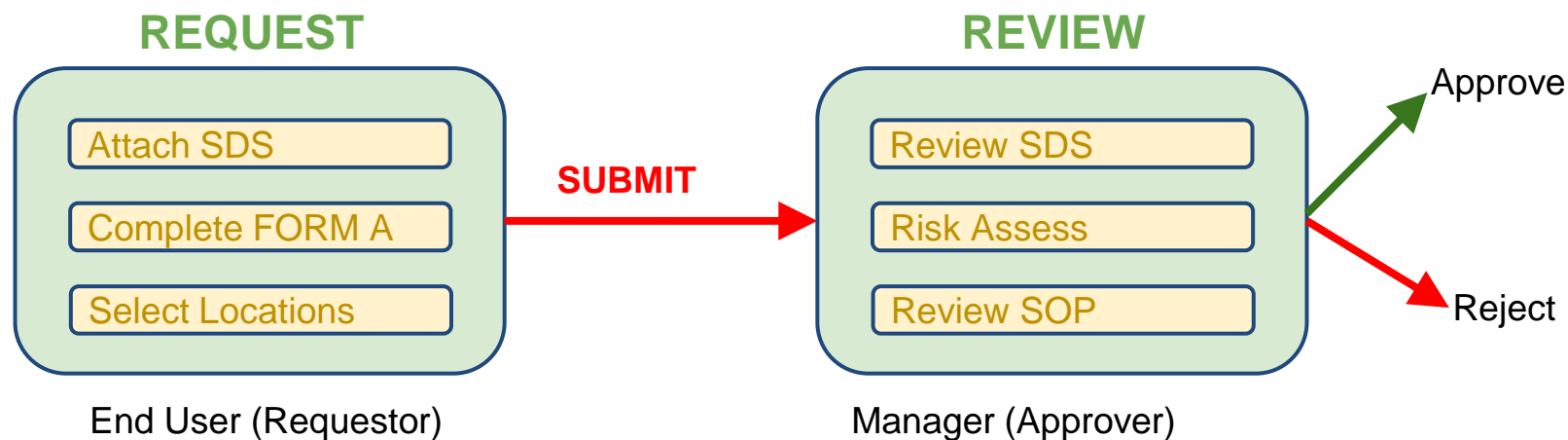
Approvals Workflow can be broken down into few simple components:

- **STAGE** (e.g. Request Stage, Local Approval Stage, Environmental Review Stage, etc.)
- **ACTION** (e.g. Extract SDS data, Fill Form, Complete Risk Assessment, etc.)
- **TRANSITION** (e.g. Send back to Requestor, Approve, Reject, or Criteria Based.)

Approvals Workflow

THE BASICS

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- Each STAGE has an OWNER.
- OWNER is the Stakeholder responsible for a particular Approval aspect.
- In larger organisations (multi national) Stakeholders are usually governed by User-groups.
- In the following slides we will cover several real life approval workflow scenarios.

Approvals Workflow



A REAL LIFE EXAMPLE

To bring together all the “building blocks” covered in today's presentation, we have prepared an example of an approval process comprised of 4 stages.

There is no limit to the number of Workflow scenarios that can be achieved with this approach.

REQUEST

LOCAL REVIEW

ENVIRONMENTAL

HEALTH & SAFETY



Approvals Workflow

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TYPICAL SCENARIO

REQUEST

LOCAL

ENVIRONMENTAL

HEALTH & SAFETY

Approval Process begins with the REQUEST STAGE



IT'S NOT THE HAZARD. IT'S THE RISK



Approvals Workflow

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TYPICAL SCENARIO

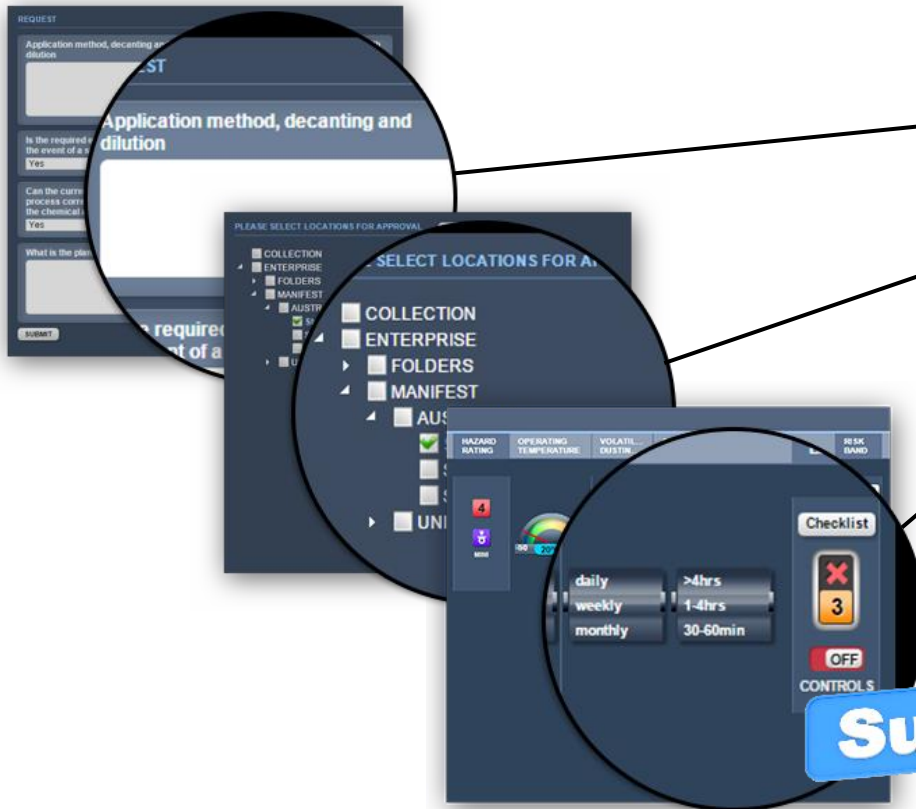
REQUEST

LOCAL

ENVIRONMENTAL

HEALTH & SAFETY

Approval Process begins with the REQUEST STAGE



ACTIONS

- Fill Request Form
- Select Location(s)
- Specify Task Scenario (Risk Assess)



I REQUEST!

Andrew
Maintenance



Submit

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Approvals Workflow

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TYPICAL SCENARIO

REQUEST

LOCAL

ENVIRONMENTAL

HEALTH & SAFETY

Local Approval Stage "places" the Chemical into the Workplace



Approvals Workflow

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TYPICAL SCENARIO



Local Approval Stage "places" the Chemical into the Workplace

ACTIONS

- ➔ Review Request Form
- ➔ Review Locations Selected
- ➔ Review Storage Requirements
- ➔ Review Incompatibilities
- ➔ Complete Risk Assessment



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Approvals Workflow

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TYPICAL SCENARIO

REQUEST

LOCAL

ENVIRONMENTAL

HEALTH & SAFETY

Environmental Review looks at potential risks and concerns related to Environmental Impacts



IT'S NOT THE HAZARD. IT'S THE RISK



Approvals Workflow

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TYPICAL SCENARIO

REQUEST

LOCAL

ENVIRONMENTAL

HEALTH & SAFETY

Environmental Review looks at potential risks and concerns related to Environmental Impacts

ACTIONS

- Review Request Form
- Review Locations Selected
- Review Environmental Report



Application method, decanting and dilution

SELECT LOCATIONS FOR...

COLLECTION ENTERPRISE FOLDERS MANIFEST AUSTRALIA

Chemwatch

WATTYL AGRICULTURAL ENVIRONMENTAL REPORT

TOXICITY

For hydrocarbons: Environmental fate: The lower molecular weight hydrocarbons are expected to evaporate and enter the atmosphere. Unlike the higher molecular weight hydrocarbons, the lower molecular weight hydrocarbons are expected to evaporate and enter the atmosphere. Unlike the higher molecular weight hydrocarbons, the lower molecular weight hydrocarbons are expected to evaporate and enter the atmosphere.



IT'S NOT THE HAZARD. IT'S THE RISK



Approvals Workflow

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TYPICAL SCENARIO

REQUEST

LOCAL

ENVIRONMENTAL

HEALTH & SAFETY

HSE Review looks at global concerns related to the storage, use and distribution of the Chemical



Request from Cindy



IT'S NOT THE HAZARD. IT'S THE RISK



Approvals Workflow

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TYPICAL SCENARIO

REQUEST

LOCAL

ENVIRONMENTAL

HEALTH & SAFETY

HSE Review looks at global concerns related to the storage, use and distribution of the Chemical

Application method, decanting and dilution

SELECT LOCATIONS FOR A...

COLLECTION

ENTERPRISE

FOLDERS

MANIFEST

AUSTRALIA

Storage 1

UNITE

List Of Concern

Chemical Name: UREA

Appears on the List Of Concern

- Reproductive
- US EPA Integ
- US EPA Carc

Chemwatch

Location: Storage 1

HEALTH RISK AS...

Watty! Agr...

Liquid

THE HAZARD 4 Very High

THE RISK 3 High

CAS NO

8052-41-3

1330-20-7

ChemWa

14807-96-6

1309-37-1

Respirator is always a last res...

PROTEC...

ACTIONS

- Review Request Form
- Review Locations Selected
- Review Regulatory Concerns
- In Depth Hazard & Risk Analysis

Submit



IT'S NOT THE HAZARD. IT'S THE RISK



Approvals Workflow

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CONDITIONAL WORKFLOW

REQUEST

LOCAL

ENVIRONMENTAL

HIGH BUSINESS RISK

HEALTH & SAFETY

RED FLAGGED Chemicals can trigger special stages requiring expert review

Rules can be used to automatically **Flag** chemicals of concern

Rules can apply to Classification, Regulation or any other data point of interest

These Rules can be used to trigger special stages or actions relevant to the organisation

EXAMPLE RULE

IF
 { the *Product* contains a **PROP 65** listed *Substance* }
THEN
 { Apply Red Flag }
 &
 { Trigger Stage 3A Approval Review }

Approvals Administration

@PPROALS

BUSINESS INTELLIGENCE MATTERS

Administration

REVIEWED	APPROVED	REJECTED	CANCELLED	MY REQUESTS	ADMINISTRATION				
Stage name	Action name	Approval name ▲	Material name	Requester name	Approval descrip	Status	Actions	History	
HSE Approval	Static Report	App# 07/08/2015 15:18 (ApprovalsTest)	(+)-borneol	Everyone		APPROVED		View	
HSE Approval	Select Location(s)	App# 08/08/2015 22:26 (ApprovalsTest)	benzene	Everyone		in progress...	Cancel	View	
HSE Approval	Static Report	App# 10/08/2015 13:11 (ApprovalsTest)	petroleum distillates HFP	Everyone		APPROVED		View	
Request	Request Form	App# 19/08/2015 10:14 (Cleaners cupboard)	Agar Chloradet	Everyone		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:05	Agar All Fresh	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:06	Caltex Two Stroke Lawn Mower Oil	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:07	Diversey Cream R7	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:07	Diversey Deep Gloss Maintainer for Stainless Steel	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:08	Diversey Glance	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:09	Diversey Reveal	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:10	Diversey Taskforce JF	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:11	Diversey View Quick	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:12	Diversey Wipeout	Jaime McDonald		in progress...	Cancel	View	
Request	Request Form	App# 10/09/2015 09:13	Glance HC	Jaime McDonald		in progress...	Cancel	View	

IT'S NOT THE HAZARD. IT'S THE RISK





IT'S NOT THE HAZARD. IT'S THE RISK



CHEMWATCH



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