# When Logic Takes Over: A Smart Chemical Approval

September 2019

# Agenda

- Introduction to Chemical Approval

- What Information do I need?

- How do you get the data?

- Where does the data flow?

- Why should I control the process?

# What Is Chemical Approval?

# Captain Charlie Plumb

*"I packed your parachute. I guess it worked!"*

*"It sure did. If your chute hadn't worked, I wouldn't be here today."*

## Efficient process are critical for success.

# Chemical Approval?

## Evaluation Criteria

- ☑ Business requirements
- ☑ Legal requirements
- ☑ Regulations
- ☑ Safety requirements
- ☑ Environmental, Health and Safety
- ☑ Product Stewardship
- ☑ Green Chemistry

# What Information Do I Need for Chemical Approval ?

**WHAT?**

What data is needed?

# What Information Do I Need for Chemical Approval ?

## WHAT?

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## HOW?

How is it captured?

# What Information Do I Need for Chemical Approval ?

## WHAT?

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## HOW?

How is it captured?

## WHERE?

How does the data flow through the organization?

Is it cross-referenced?

# What Information Do I Need for Chemical Approval ?

## WHAT?

What data is needed?



## HOW?

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## NOW WHAT?

What happens at the end of an approval or denial?

# What Data Is Needed?

- Data drives your process
- Majority of this data comes from the Safety Data Sheets (SDS)
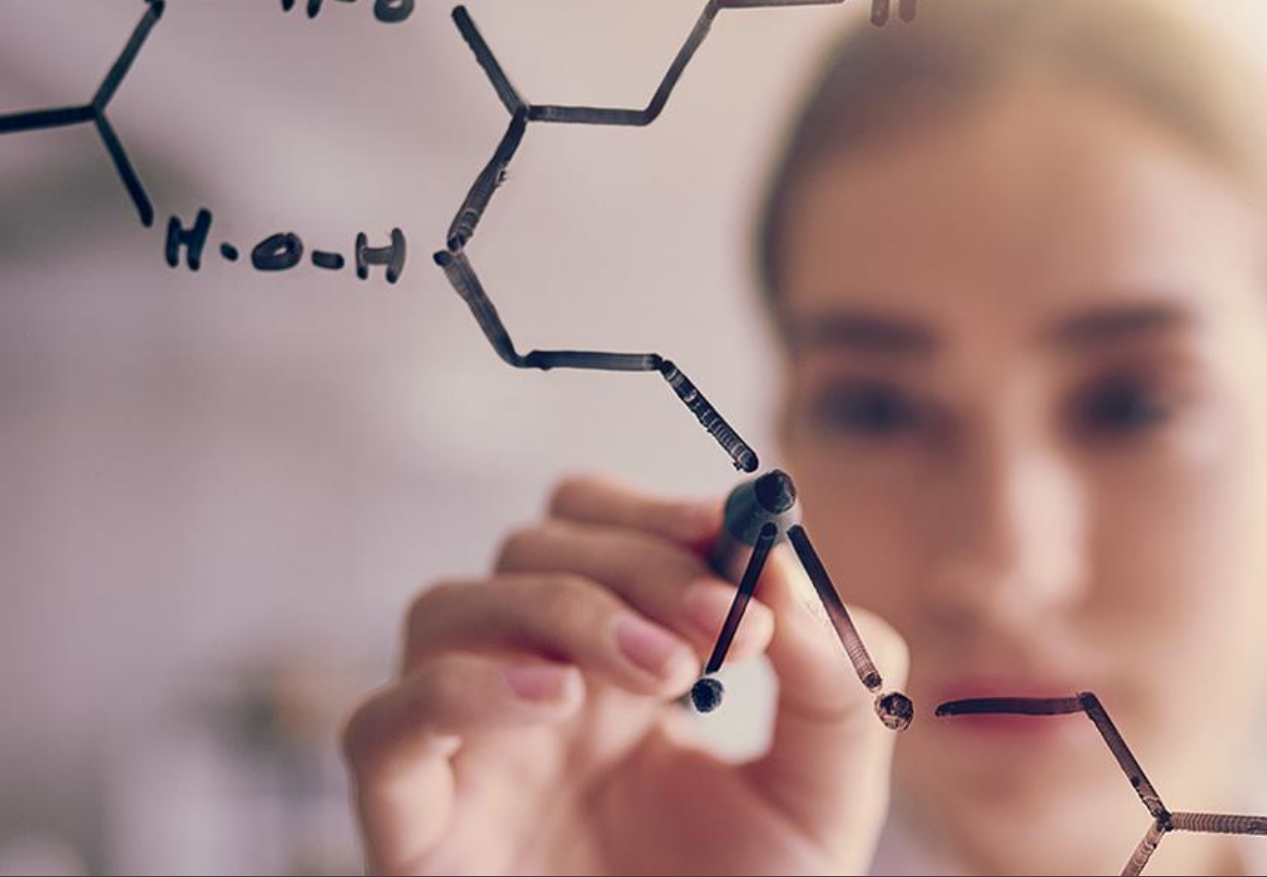- Best Practice: Insight and visibility to SDS data

Product → SDS → Chemical Approval Process → User
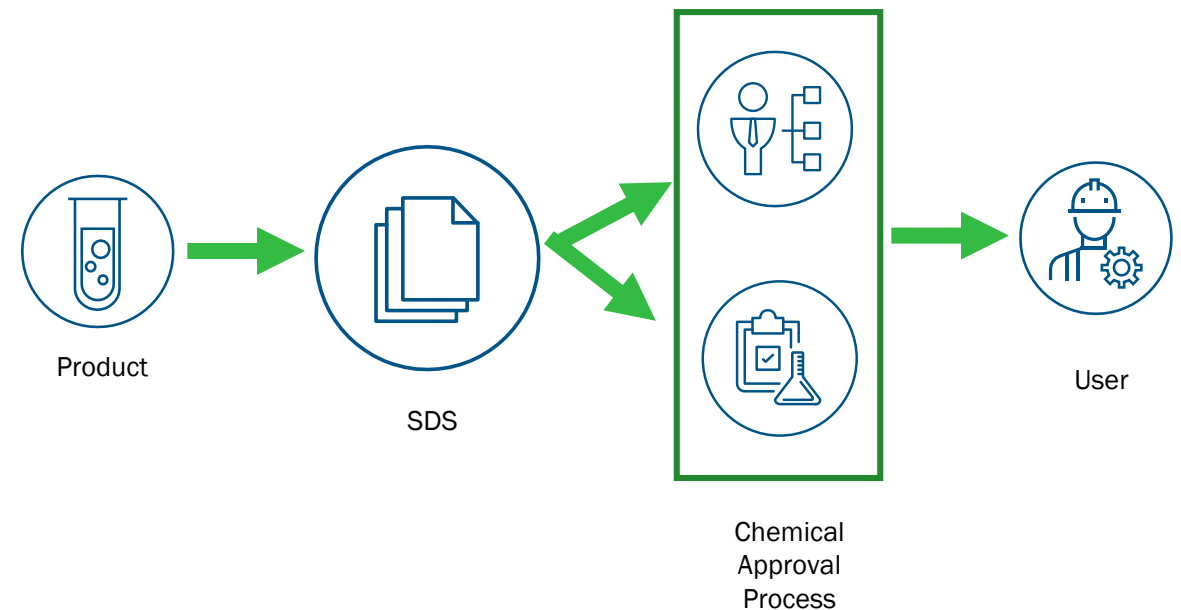
# Additional Data Sources

- ☑ Full disclosure
- ☑ Supplier information
- ☑ Supplementary documentation

# Poll: **How do you capture the data you need to make decisions?**

- Paper forms
- Homegrown system
- Software Application/ERP
- No system
- Other

# Capturing Data: Forms

# "Smart" Forms

## Benefits:

- ☑ Data is accurately captured reducing error
- ☑ Users are not overwhelmed with irrelevant questions
- ☑ User's focus can be directed to provide data which will have the most impact on the organization
- ☑ It streams line the process and saves a lot of time and duplicity in effort

IF, THEN

# SMART Forms

# Where Does Data Flow?

## **Approval** Workflow



Request → Safety → IH

EHS → Prd Stew → Finishing
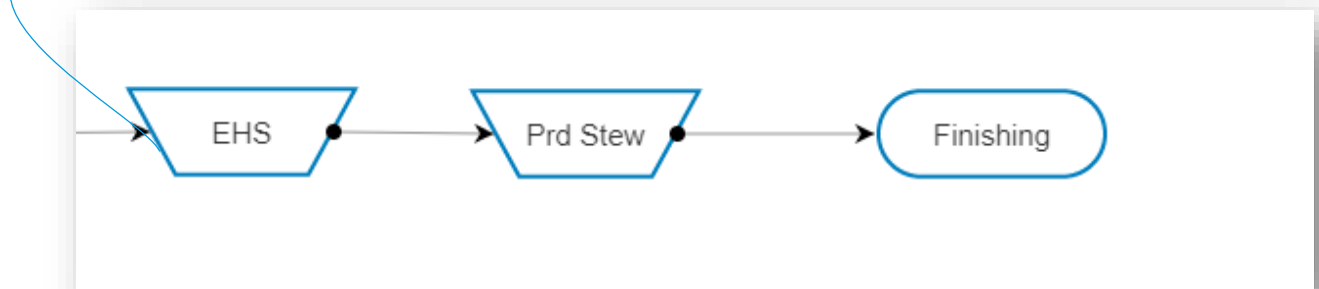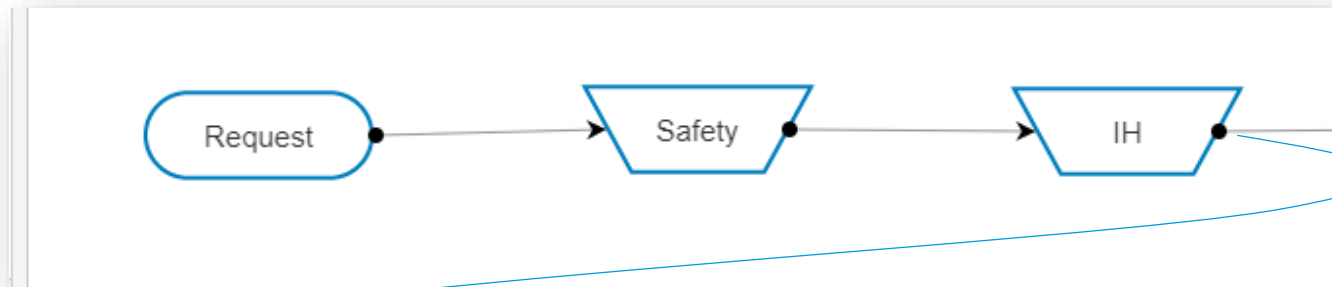
# **SMART** Workflow

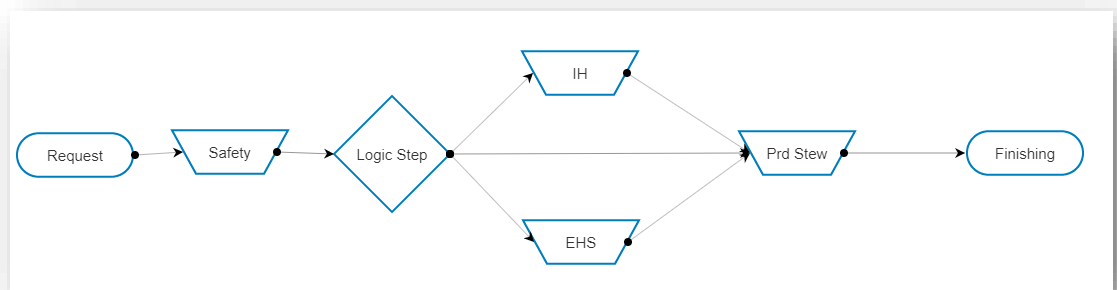## Advantages:

☑ Everyone in the process need not spend time evaluating, if they are not needed

☑ Processes can be streamlined

☑ This cuts out the noise for evaluators

# Control Each Step of the Way

- Is this step giving us relevant information?
- Is this step saving us time or is it a potential bottleneck?
- What is the impact of this step?

## Why?

☑ New products

☑ Changing products

☑ Changing ingredient

# Best Practice for Capturing Data:

## Think **Short** & **Easy**

## Advantages:

- ☑ Standardize Options
- ☑ Eliminate Confusion
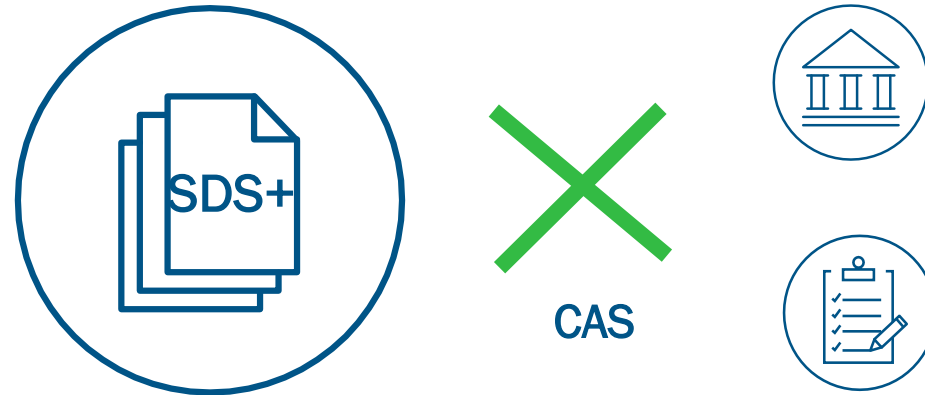- ☑ Simplify Reports
- ☑ Streamline Logins

# Poll: **How long does your approval process currently take?**

- Minutes
- Hours
- Days
- Weeks
- Months

# The Automated Assistant: Cross Referencing Data

SDS+

CAS

## Results:

- ☑ Positive impact to an informed decision making.

- ☑ Reference data set for making product stewardship, safety, EHS, green chemistry.

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☑ Positive impact and informed decision making

☑ Reference data set for making product stewardship, safety, EHS, green chemistry

# Threshold Reporting and Inventory

**Quantity data** can be collected for threshold reporting and Inventory

**Cross referenced data** can flag evaluator of chemicals that may have negative impact

# The Big Picture:
# The Necessity for Logical Chemical Approval Processes

☑ Ensure chemicals fulfill business needs

☑ Fulfill ever-changing regulatory obligations

☑ Implement dynamic and flexible processes that correspond to complex facilities

☑ Integrate with other processes (threshold reporting, inventory)

# Questions?

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