

# Creating a New Material

## Creating a new material

JAGGAER Enterprise Reagent Manager

File Reports Layout Help

Requisition Search Orders Receiving Repository Request **Substance Register** Admin Container Administration

Search Clear Reset Mark Reviewed New

R&S / H&P Lists GHS Hazards

Risk/Hazard		
Phrase Number	Type	Phrase Text
1	Risk Phrase	Explosive when dry
10	Risk Phrase	Flammable
11	Risk Phrase	Highly Flammable
12	Risk Phrase	Extremely Flammable
14	Risk Phrase	Reacts violently with water
15	Risk Phrase	Contact with water liberates extremely flammable gases
16	Risk Phrase	Explosive when mixed with oxidising substances
17	Risk Phrase	Spontaneously flammable in air
18	Risk Phrase	In use may form flammable/explosive vapour-air mixture
19	Risk Phrase	May form explosive peroxides
2	Risk Phrase	Risk of explosion by shock, friction, fire or other sources ...
20	Risk Phrase	Harmful by inhalation
20/21	Risk Phrase	Harmful by inhalation and in contact with skin
20/21/22	Risk Phrase	Harmful by inhalation, in contact with skin and if swallow...
21	Risk Phrase	Harmful in contact with skin
22	Risk Phrase	Harmful if swallowed
23	Risk Phrase	Toxic by inhalation
24	Risk Phrase	Toxic in contact with skin
25	Risk Phrase	Toxic if swallowed

Review Status: Not Reviewed

Name/Identifier:

Create Date:  --

Creator Site: CHEMISTRY

Organization:

Review Status: All

**Name/Identifier**:

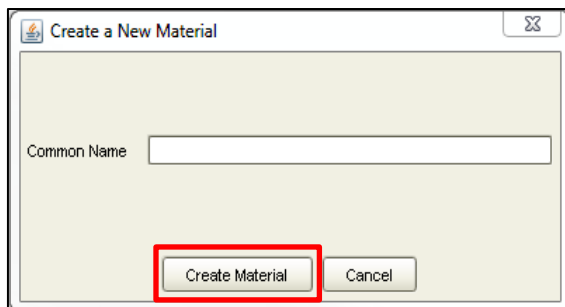
Create Date:  --

Creator Site: All

Organization:

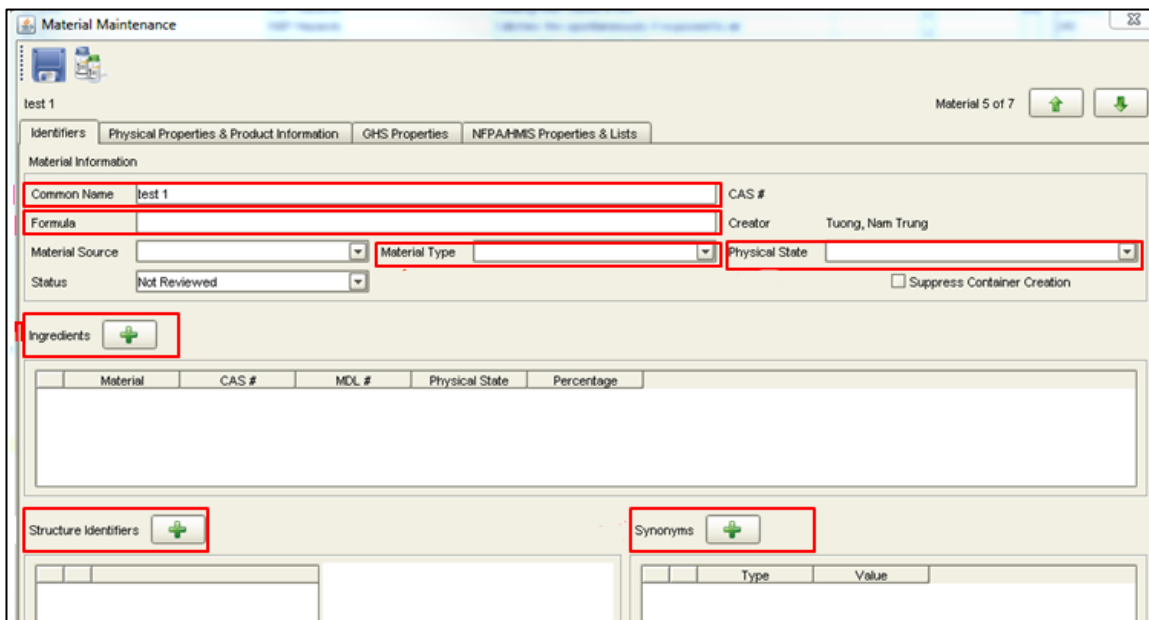
- ▶ Click on the “UNSW Substance Register” tab
- ▶ Click on the “Clear” button to set the “Review Status” and “Creator Site” to “All”
- ▶ Carry out a thorough search to make sure the substance does not already exist (*this saves you having to enter all the GHS hazard data if it already exists*)
- ▶ In the **Name / Identifier** field enter either:
  - ▶ the CAS number,
  - ▶ the name of the substance e.g. Sodium Chloride
  - ▶ the name of the substance **with wildcards** (e.g. \*sodium\*\*chloride\* or \*amino\*phenyl\*prop\* if you are after (1R,2S)-(-)-2-amino-1-phenyl-1,3-propanediol

## Creating a New Material



- ▶ If no search results are returned then follow the steps below to create the new material
- ▶ Click on the **New** button to open the “**Create a New Material**” window
- ▶ Type in the common name of the new substance and select “**Create Material**”

## Creating a New Material



Material Maintenance

test 1 Material 5 of 7

Identifiers Physical Properties & Product Information GHS Properties NFPA/HMS Properties & Lists

Material Information

Common Name test 1 CAS #

Formula

Material Source Material Type Physical State

Status Not Reviewed  Suppress Container Creation

Ingredients +

Material	CAS #	MDL #	Physical State	Percentage


Structure Identifiers +

Synonyms +

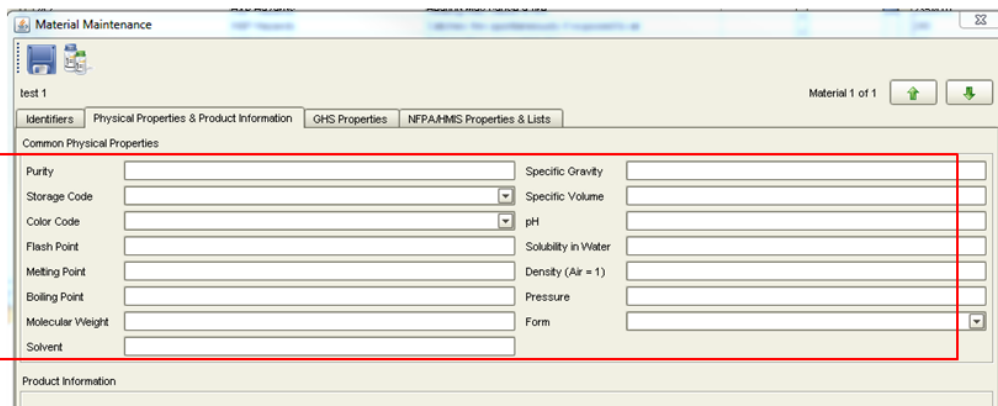
Type	Value

This opens the “Material Maintenance” window.

Please complete as many fields as possible that will assist other users e.g. in the “**Identifiers**” Tab enter:

- ▶ Common Name
- ▶ Formula
- ▶ Material Type
- ▶ Physical State
- ▶ Click on this button  to enter in the ingredients if the material is a mixture
- ▶ Click on the “**Structure Identifiers**” button to enter the CAS number or MDL number
- ▶ Click on the “**Synonyms**” button to add in any alias (alternative name) for the material

## Creating a New Material



Material Maintenance

test 1 Material 1 of 1

Identifiers Physical Properties & Product Information GHS Properties NFPA/HMS Properties & Lists

Common Physical Properties

Purity	<input type="text"/>	Specific Gravity	<input type="text"/>
Storage Code	<input type="text"/>	Specific Volume	<input type="text"/>
Color Code	<input type="text"/>	pH	<input type="text"/>
Flash Point	<input type="text"/>	Solubility in Water	<input type="text"/>
Melting Point	<input type="text"/>	Density (Air = 1)	<input type="text"/>
Boiling Point	<input type="text"/>	Pressure	<input type="text"/>
Molecular Weight	<input type="text"/>	Form	<input type="text"/>
Solvent	<input type="text"/>		

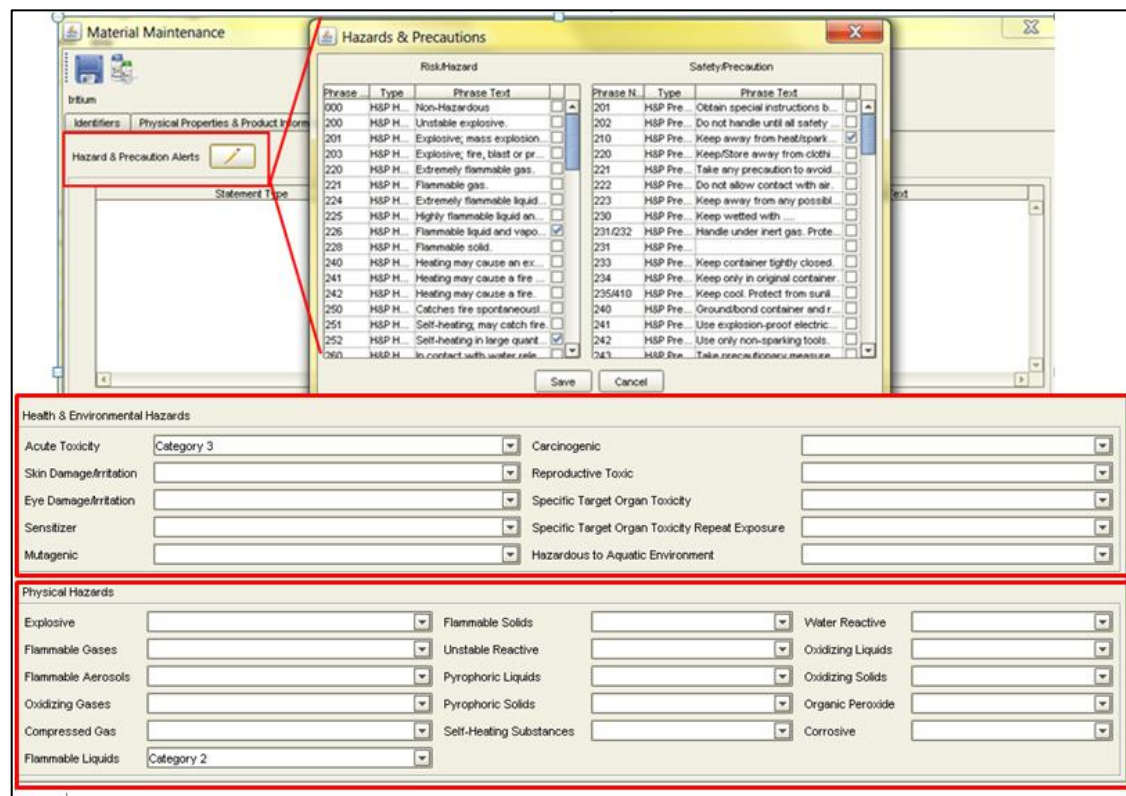
Product Information

Now go to the “**Physical Properties & Product Information**” tab. Enter in as much information as you think might assist others (none of the information in this particular tab is mandatory)

- ▶ Purity: concentration of material can be entered here
- ▶ Storage Code (e.g. fridge or FlamLiqCab)
- ▶ Melting Point and Boiling Point
- ▶ Molecular Weight
- ▶ pH etc

# Creating a New Material

Identifiers   Physical Properties & Product Information   **GHS Properties**   NFPA/HMIS Properties & Lists



**Hazards & Precautions**

Risk/Hazard			Safety/Precaution		
Phrase	Type	Phrase Text	Phrase N.	Type	Phrase Text
000	HSP H	Non-Hazardous	201	HSP Pre	Obtain special instructions b...
200	HSP H	Unstable explosive	202	HSP Pre	Do not handle until all safety...
201	HSP H	Explosive, mass explosion	210	HSP Pre	Keep away from heat/spark
203	HSP H	Explosive, fire, blast or pr...	220	HSP Pre	Keep/Store away from clothe...
220	HSP H	Extremely flammable gas	221	HSP Pre	Take any precaution to avoid...
221	HSP H	Flammable gas	222	HSP Pre	Do not allow contact with air
224	HSP H	Extremely flammable liquid	223	HSP Pre	Keep away from any possibl...
225	HSP H	Highly flammable liquid an...	230	HSP Pre	Keep wetted with ...
226	HSP H	Flammable liquid and vapo...	231/232	HSP Pre	Handle under inert gas. Prote...
228	HSP H	Flammable solid	231	HSP Pre	
240	HSP H	Heating may cause an ex...	233	HSP Pre	Keep container tightly closed
241	HSP H	Heating may cause a fire ...	234	HSP Pre	Keep only in original container
242	HSP H	Heating may cause a fire ...	235/410	HSP Pre	Keep cool. Protect from sunli...
250	HSP H	Catches fire spontaneously	240	HSP Pre	Ground/bond container and r...
251	HSP H	Self-heating, may catch fire	241	HSP Pre	Use explosion-proof electric...
252	HSP H	Self-heating in large quant...	242	HSP Pre	Use only non-sparking tools
260	HSP H	In contact with water, rele...	243	HSP Pre	Take precautionary measure...

**Health & Environmental Hazards**

Acute Toxicity: Category 3      Carcinogenic: [ ]

Skin Damage/Irritation: [ ]      Reproductive Toxic: [ ]

Eye Damage/Irritation: [ ]      Specific Target Organ Toxicity: [ ]

Sensitizer: [ ]      Specific Target Organ Toxicity Repeat Exposure: [ ]

Mutagenic: [ ]      Hazardous to Aquatic Environment: [ ]

**Physical Hazards**

Explosive: [ ]      Flammable Solids: [ ]      Water Reactive: [ ]

Flammable Gases: [ ]      Unstable Reactive: [ ]      Oxidizing Liquids: [ ]

Flammable Aerosols: [ ]      Pyrophoric Liquids: [ ]      Oxidizing Solids: [ ]

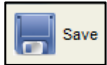
Oxidizing Gases: [ ]      Pyrophoric Solids: [ ]      Organic Peroxide: [ ]

Compressed Gas: [ ]      Self-Heating Substances: [ ]      Corrosive: [ ]

Flammable Liquids: Category 2

Click on the GHS Properties tab. (**VERY IMPORTANT**). This records all the Hazard and Safety data.

Complete ALL fields. *This information determines the pictograms for the safety label PLUS enables accurate reporting for the emergency services.* You **MUST** use the information from the Safety Data Sheet to complete this section (Use either the supplier's SDS or one downloaded from Sigma-Aldrich)

- ▶ Click on the “**Hazard and & Precaution Alerts**” pencil icon which opens the GHS Hazard and Precaution Statements table. Tick the relevant hazard statements (as per the SDS) in the left-hand table and tick the relevant safety precautions in the right-hand table). *If the Substance is classified as Non-Hazardous, choose the ‘000 Non-Hazardous statement’*
- ▶ **Health & Environment Hazards:** Click on the down arrow for each of the relevant Hazard Classes and choose the correct **category** (as stated on the SDS)
- ▶ **Physical Hazards:** Select the correct category for each physical hazard class where relevant to the material
- ▶ Click the  button to create the material