

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

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:

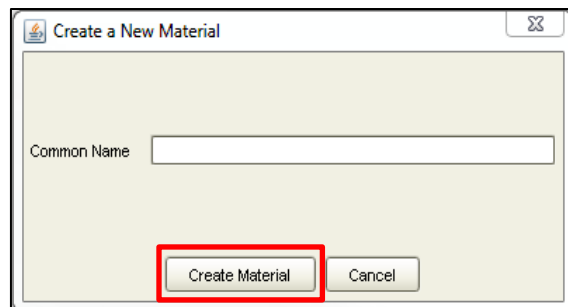
Create Date: --

Creator Site: All

Organization:

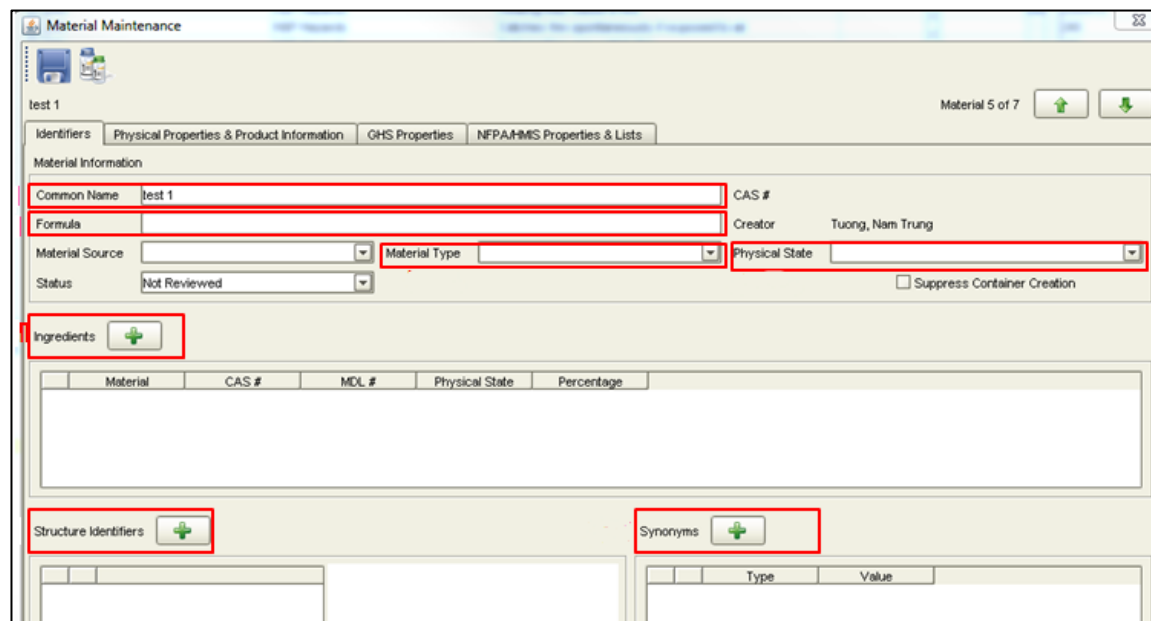
- ▶ Click on the “UNSW Substance Register” tab
- ▶ Click on the “Clear” button to set the “Review Status” and “Creator Site” to “All”
- ▶ Carry out a thorough search to make sure the substance does not already exist (*this saves you having to enter all the GHS hazard data if it already exists*)
- ▶ In 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 +

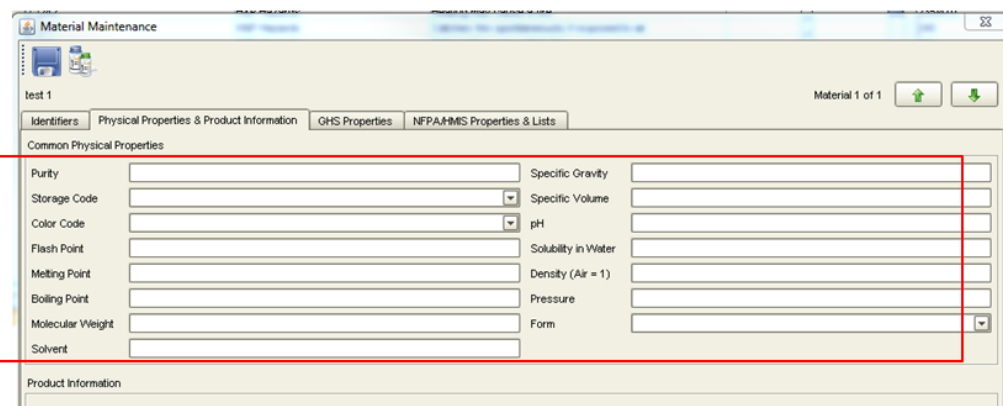
Type	Value

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		Specific Gravity	
Storage Code		Specific Volume	
Color Code		pH	
Flash Point		Solubility in Water	
Melting Point		Density (Air = 1)	
Boiling Point		Pressure	
Molecular Weight		Form	
Solvent			

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

Material Maintenance

Hazards & Precautions

Risk/Hazard

Phrase	Type	Phrase Text
000	HSP H	Non-Hazardous
200	HSP H	Unstable explosive
201	HSP H	Explosive; mass explosion
203	HSP H	Explosive; fire, blast or pr...
220	HSP H	Extremely flammable gas
221	HSP H	Flammable gas
224	HSP H	Extremely flammable liquid
225	HSP H	Highly flammable liquid on...
226	HSP H	Flammable liquid and vapo...
228	HSP H	Flammable solid
240	HSP H	Heating may cause an ex...
241	HSP H	Heating may cause a fire ...
242	HSP H	Heating may cause a fire ...
250	HSP H	Catches fire spontaneously...
251	HSP H	Self-heating, may catch fire
252	HSP H	Self-heating in large quant...
260	HSP H	In contact with water, rele...

Safety/Precaution

Phrase N	Type	Phrase Text
201	HSP Pre	Obtain special instructions b...
202	HSP Pre	Do not handle until all safety
210	HSP Pre	Keep away from heat/spark
220	HSP Pre	Keep/Store away from cloths
221	HSP Pre	Take any precaution to avoid
222	HSP Pre	Do not allow contact with air
223	HSP Pre	Keep away from any possibl
230	HSP Pre	Keep wetted with ...
231/232	HSP Pre	Handle under inert gas. Prote
231	HSP Pre	HSP Pre
233	HSP Pre	Keep container tightly closed
234	HSP Pre	Keep only in original container
235/410	HSP Pre	Keep cool. Protect from sunli
240	HSP Pre	Ground/bond container and r
241	HSP Pre	Use explosion-proof electric
242	HSP Pre	Use only non-sparking tools
243	HSP Pre	Take precautionary measure

Save Cancel

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

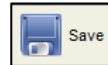
Oxidizing Gases Pyrophoric Solids Organic Peroxide

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