

# HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name: Acetone**

UN#: 1090

MSDS consulted: **Yes/No**

## SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	<b>liquid</b>	volatile liquid	gas
<b>Nature of Hazard:</b>	carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	<b>irritant</b>	can cause dermatitis
flammable	<b>highly flammable</b>	explosive	sensitiser ( <i>skin or respiratory system</i> )	
can cause pulmonary oedema		asphyxiation	potential electrocution	
harmful (by acute exposure)		harmful (by repeated exposure)		
reacts violently with water		large scale reaction		
<b>Route of Exposure:</b>	<b>inhalation</b>	skin contact	ingestion	
eye or mucous membrane contact	inoculation or injection			

## SPECIAL NOTES

**Storage:** Store tightly closed in fume hood, away from oxidisers and sources of ignition

**Handling Precautions:** eye protection: **glasses** goggles face shield  
fume hood respirator special clothing **colleague in attendance**

**Appropriate Gloves:** PVC **Latex** Nitrile **Neoprene PE/EVAL**  
Other: **all gloves need changing often, breakthrough time of 5-10 minutes**

**Conditions to Avoid:**-see Incompatibilities below.

## WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Glass or plastic bottles (if approved for flammables) tightly closed, away from sources of ignition in fume hood or flammable storage area for disposal.

**Incompatibilities:** Do not mix with Chloroform-avoid oxidisers, acids and alkalis.

## EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, consider evacuation**

Risk of explosion or fire: low moderate **high**

Material to **absorb spill**/neutralise spill: **Clean up with water**

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS for further instructions.**

## ANU Risk Category:

A (low risk)

B1 (lower moderate risk)

B2 (higher moderate risk)

**C1 (lower significant risk)**

C2 (higher significant risk)

D (high risk)

**Compiled by :** Ginny Sargent \_\_\_\_\_ **Date :** 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Acetic Acid Glacial**

UN#: 2789

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas
<b>Nature of Hazard:</b>	carcinogen	mutagen	teratogen	radioactive
<b>Corrosive</b>	oxidiser	toxic	irritant	can cause dermatitis
flammable	<b>highly flammable</b>	explosive	sensitiser ( <i>skin or respiratory system</i> )	
can cause pulmonary oedema		asphyxiation	potential electrocution	
<b>harmful (by acute exposure)</b>		harmful (by repeated exposure)		
<b>reacts violently with water</b>		large scale reaction		
Other (please specify) :	_____			
<b>Route of Exposure:</b>	<b>inhalation</b>	<b>skin contact</b>	ingestion	
eye or mucous membrane contact	inoculation or injection			

### SPECIAL NOTES

**Storage:** Store tightly closed in Corrosives cabinet, away from sources of ignition, alkalies sulfides, carbonates and oxidisers.

**Handling Precautions:** eye protection: **glasses** goggles face shield  
fume hood respirator special clothing colleague in attendance

**Appropriate Gloves:** PVC Latex Nitrile Neoprene PE/EVAL

**Conditions to Avoid:** -see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Keep locked up, in glass or plastic bottles (if approved for flammables) with tightly closed lid, in fume hood or flammable storage area

**Incompatibilities:** Do not mix with oxidisers, sulfides, peroxides, alkalies and carbonates.

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, consider evacuation**

Risk of explosion or fire: low moderate **high**

Material to **absorb spill**/neutralise spill: **Clean up with water**

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS for further instructions.**

### ANU Risk Category:

A (low risk)

B1 (lower moderate risk)

B2 (higher moderate risk)

**C1 (lower significant risk)**

C2 (higher significant risk)

D (high risk)

**Compiled by :** Ginny Sargent \_\_\_\_\_ **Date :** 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Butanol**

UN#: 1120

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	<b>liquid</b>	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	irritant	can cause dermatitis	
<b>flammable</b>	highly flammable		explosive	sensitiser ( <i>skin</i> or <i>respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
<b>harmful (by acute exposure)</b>		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) :					
<b>Route of Exposure:</b>	<b>inhalation</b>		<b>skin contact</b>	ingestion	
<b>eye or mucous membrane contact</b>		inoculation or injection			

### SPECIAL NOTES

**Storage:** Store tightly closed in Flammables area, away from sources of ignition.

**Handling Precautions:** eye protection: **glasses** **goggles** face shield  
**fume hood** respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** **PVC** Latex **Nitrile** Neoprene PE/EVAL

**Conditions to Avoid:-** also see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Glass or plastic bottles (if approved for flammables) tightly closed, away from sources of ignition in fume hood or flammable storage area for disposal.

**Incompatibilities:** Avoid storing with oxidisers.

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, evacuate, requires breathing apparatus to clean up**

Risk of explosion or fire: low **moderate** high

Material to **absorb spill**/neutralise spill:

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS** for further instructions.

### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	<b>B2 (higher moderate risk)</b>
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Chloroform**

UN#: 1888

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	irritant	can cause dermatitis	
flammable	highly flammable		explosive	sensitiser ( <i>skin or respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
harmful (by acute exposure)		harmful (by repeated exposure)			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	inhalation		skin contact		ingestion
eye or mucous membrane contact		inoculation or injection			

### SPECIAL NOTES

**Storage:** Store tightly closed away from in well ventilated area.

**Handling Precautions:** eye protection: glasses goggles face shield  
fume hood respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex Nitrile Neoprene PE/EVAL/Teflon

Notes Chloroform has fast permeation rates with all glove types-change gloves immediately if touched by chemical

**Conditions to Avoid:**-see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Halogenated solvent

**Storage/Disposal:** Keep locked up, in glass bottles (**NOT plastic**) with tightly closed lid, in chemical storage area until disposal.

**Incompatibilitites:** Do not mix with Acetone, strong alkali, methanol, metals or NaOH.

### EMERGENCY RESPONSE

If Spill: Contain spillage by any means, consider evacuation

Risk of explosion or fire: low moderate high

Material to absorb spill/neutralise spill: Clean up with water and detergent

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.

**ANU Risk Category:**

A (low risk)

B1 (lower moderate risk)

B2 (higher moderate risk)

C1 (lower significant risk)

C2 (higher significant risk)

D (high risk)

**Compiled by :** Ginny Sargent \_\_\_\_\_ **Date :** 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **DCM-Dichloromethane (Methylene Chloride)**

UN#: 1593

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas
<b>Nature of Hazard:</b>	carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	<b>toxic</b>	<b>irritant</b>	can cause dermatitis
flammable	highly flammable		explosive	sensitiser ( <i>skin or respiratory system</i> )
can cause pulmonary oedema		asphyxiation		potential electrocution
harmful (by acute exposure)		<b>harmful (by repeated exposure)</b>		
<b>reacts violently with water</b>		large scale reaction		
Other (please specify) :	_____			
<b>Route of Exposure:</b>	<b>inhalation</b>	<b>skin contact</b>	<b>ingestion</b>	
<b>eye or mucous membrane contact</b>	<b>inoculation or injection</b>			

### SPECIAL NOTES

**Storage:** Store in original containers tightly closed in cool well ventilated area, check regularly for spills or leaks.

**Handling Precautions:** eye protection: **glasses** **goggles** **face shield**  
fume hood **respirator** **special clothing** **colleague in attendance**  
Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex Nitrile Neoprene **PE/EVAL** Notes

DCM has fast permeation rates with all glove types-change gloves immediately if touched by chemical

**Conditions to Avoid:** In presence of moisture and higher temperatures material breaks down generating hydrochloric acid, which may corrode and perforate containers.-also see **Incompatibilities below.**

### WASTE HANDLING

**Label/Category:** Halogenated solvent

**Storage/Disposal:** Keep in a dark glass or steel container (NOT plastic), tightly closed in a well ventilated place, away from , check regularly for spills or leaks..

**Incompatibilities:** Segregate from strong oxidisers, strong alkalis, metals, **alcohol and water.**

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, consider evacuation**

Risk of explosion or fire: **low** moderate high

Material to **absorb spill/neutralise spill:**

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS for further instructions.**

### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	B2 (higher moderate risk)
<b>C1 (lower significant risk)</b>	<b>C2 (higher significant risk)</b>	<b>D (high risk)</b>

**Compiled by :** Ginny Sargent \_\_\_\_\_ **Date :** 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** Ethanol

UN#: 1170

MSDS consulted: Yes/No

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	irritant	can cause dermatitis	
flammable	highly flammable		explosive	sensitiser (skin or respiratory system)	
can cause pulmonary oedema		asphyxiation		potential electrocution	
harmful (by acute exposure)		harmful (by repeated exposure)			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	inhalation		skin contact	ingestion	
eye or mucous membrane contact		inoculation or injection			

### SPECIAL NOTES

**Storage:** Store tightly closed in Flammables area, away from sources of ignition, alkali metals strong oxidisers and peroxides.

**Handling Precautions:** eye protection: glasses goggles face shield  
fume hood respirator special clothing colleague in attendance  
Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex Nitrile Neoprene PE/EVAL

**Conditions to Avoid:** -see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Keep locked up, in glass or plastic bottles (if approved for flammables) with tightly closed lid, in fume hood or flammable storage area-avoid oxidisers, peroxides, alkalis and carbonates.

**Incompatibilities:** Do not mix with alkalis sulfides, carbonates or oxidisers.

### EMERGENCY RESPONSE

If Spill: Contain spillage by any means, consider evacuation

Risk of explosion or fire: low moderate high

Material to absorb spill/neutralise spill: Clean up with water

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.

### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	B2 (higher moderate risk)
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Ethidium Bromide**

UN#: 2811

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	<b>solid</b>	<b>liquid</b>	<b>volatile liquid</b>	<b>gas</b>	
<b>Nature of Hazard:</b>		<b>carcinogen</b>	<b>mutagen</b>	<b>teratogen</b>	<b>radioactive</b>
Corrosive	oxidiser	<b>toxic</b>	<b>irritant</b>	can cause dermatitis	
flammable	highly flammable		explosive	sensitiser ( <i>skin</i> or <i>respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
harmful (by acute exposure)		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	<b>inhalation</b>	<b>skin contact</b>	<b>ingestion</b>		
<b>eye or mucous membrane contact</b>	<b>inoculation or injection</b>				

### SPECIAL NOTES

**Storage:** Store in well ventilated area away from oxidisers.

**Handling Precautions:** eye protection: **glasses** **goggles** face shield  
fume hood respirator special clothing colleague in attendance  
Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** **PVC** **Latex** **Nitrile** Neoprene PE/EVAL

**Conditions to Avoid:** -see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Keep in glass or plastic bottles with tightly closed lid, clean up with charcoal 1g/L of dilute waste-see BoZo document on disposal of Chemical Waste.

**Incompatibilities:** Do not mix with oxidising agents.

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, consider evacuation**

Risk of explosion or fire: **low** moderate high

Material to **absorb** spill/neutralise spill: **Clean up with water**

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS** for further instructions.

#### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	<b>B2 (higher moderate risk)</b>
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name: 10%Formalin (Formaldehyde)**

UN#:

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	irritant	can cause dermatitis	
flammable	highly flammable		explosive	sensitiser (skin or respiratory system)	
can cause pulmonary oedema		asphyxiation		potential electrocution	
harmful (by acute exposure)		harmful (by repeated exposure)			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	inhalation		skin contact		ingestion
eye or mucous membrane contact		inoculation or injection			

### SPECIAL NOTES

**Storage:** Store tightly closed away from in well ventilated area.

**Handling Precautions:** eye protection: glasses goggles face shield  
fume hood respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex Nitrile Neoprene PE/EVAL

**Conditions to Avoid:**-see Incompatibilities below. Do not heat

### WASTE HANDLING

**Label/Category:** Formalin Waste

**Storage/Disposal:** Keep in a glass Polyethylene or polypropylene container, tightly closed in Chemical Store.

**Incompatibilitites:** Avoid storing with acids and strong oxidisers

### EMERGENCY RESPONSE

If Spill: Contain spillage by any means, consider evacuation

Risk of explosion or fire: low moderate high

Material to absorb spill/neutralise spill: Clean up with water

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.

**ANU Risk Category:**

A (low risk) B1 (lower moderate risk) B2 (higher moderate risk)

C1 (lower significant risk) C2 (higher significant risk) D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Hexane**

UN#: 1208

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	<b>volatile liquid</b>	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	<b>toxic</b>	<b>irritant</b>	can cause dermatitis	
flammable	<b>highly flammable</b>		explosive	sensitiser ( <i>skin</i> or <i>respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
harmful (by acute exposure)		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) : <u>possible risk of impaired fertility</u>					
<b>Route of Exposure:</b>	<b>inhalation</b>	<b>skin contact</b>	ingestion		
<b>eye or mucous membrane contact</b>	inoculation or injection				

### SPECIAL NOTES

**Storage:** Store tightly closed in Flammables area, away from sources of ignition.

**Handling Precautions:** eye protection: **glasses** **goggles** face shield  
**fume hood** respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex **Nitrile** Neoprene **PE/EVAL**

**Conditions to Avoid:** -see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Keep in glass bottles with tightly closed lid, in fume hood or flammable storage area-small amounts may be disposed of by evaporation in a fume hood.

**Incompatibilities:** Avoid strong oxidisers.

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, consider evacuation**

Risk of explosion or fire: low moderate **high**

Material to **absorb spill**/neutralise spill:

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS** for further instructions.

#### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	B2 (higher moderate risk)
<b>C1 (lower significant risk)</b>	C2 (higher significant risk)	D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Histo-Clear**

UN#: 1307

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	<b>irritant</b>	can cause dermatitis	
<b>flammable</b>	highly flammable		explosive	sensitiser ( <i>skin</i> or <i>respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
<b>harmful (by acute exposure)</b>		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) : <b>Very toxic to aquatic organisms</b> _____					
<b>Route of Exposure:</b>	<b>inhalation</b>		<b>skin contact</b>		<b>ingestion</b>
<b>eye or mucous membrane contact</b>		<b>inoculation or injection</b>			

### SPECIAL NOTES

**Storage:** Store tightly closed in Flammables area, away from sources of ignition or combustible materials.

**Handling Precautions:** eye protection: **glasses** **goggles** face shield  
**fume hood** respirator special clothing colleague in attendance

**Appropriate Gloves:** PVC Latex **Nitrile** Neoprene PE/EVAL

**Conditions to Avoid:** **Very toxic to aquatic organisms-do not rinse any waste down sink, also contact with combustible material may cause fire-see Incompatibilities below.**

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Keep locked up, in original containers with tightly closed lid, in fume hood or flammable storage area for disposal.

**Incompatibilitites:** Avoid storing with oxidisers. The various oxides of nitrogen and peroxyacids may be dangerously reactive in the presence of alkenes.

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, eliminate ignition sources, consider evacuation**

Risk of explosion or fire: low **moderate** high

Material to **absorb spill/neutralise spill:** **Clean up with water and detergent.**

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS for further instructions.**

### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	<b>B2 (higher moderate risk)</b>
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

**Compiled by :** Ginny Sargent \_\_\_\_\_ **Date :** 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name: Isopropanol**

UN#: 1219

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	<b>irritant</b>	can cause dermatitis	
flammable	<b>highly flammable</b>		explosive	sensitiser ( <i>skin or respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
<b>harmful (by acute exposure)</b>		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	<b>inhalation</b>	<b>skin contact</b>	ingestion		
<b>eye or mucous membrane contact</b>	inoculation or injection				

### SPECIAL NOTES

**Storage:** Store tightly closed in Flammables area, away from sources of ignition.

**Handling Precautions:** eye protection: **glasses** **goggles** face shield  
**fume hood** respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** **PVC** Latex **Nitrile** Neoprene **PE/EVAL**

**Conditions to Avoid:** -see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Store in glass containers with tightly closed lid, in fume hood or flammable storage area for disposal.

**Incompatibilities:** Avoid storing with strong oxidisers or isocyanates.

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, eliminate ignition sources, consider evacuation**

Risk of explosion or fire: low moderate **high**

Material to **absorb spill/neutralise spill:** **Clean up with water and detergent.**

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see **MSDS for further instructions.**

### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	<b>B2 (higher moderate risk)</b>
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name: Methanol**

UN#: 1230

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas
<b>Nature of Hazard:</b>	carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	toxic	irritant	can cause dermatitis
flammable	highly flammable	explosive	sensitiser ( <i>skin</i> or <i>respiratory system</i> )	
can cause pulmonary oedema		asphyxiation	potential electrocution	
harmful (by acute exposure)		harmful (by repeated exposure)		
reacts violently with water		large scale reaction		
Other (please specify) :	Danger of very serious irreversible effects through inhalation and contact with skin.			
<b>Route of Exposure:</b>	inhalation	skin contact	ingestion	
eye or mucous membrane contact	inoculation or injection			

### SPECIAL NOTES

**Storage:** Store tightly closed in Flammables area, away from sources of ignition.

**Handling Precautions:** eye protection: glasses goggles face shield  
fume hood respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex Nitrile Neoprene PE/EVAL

**Conditions to Avoid:-Methanol will soften and dissolve rubber, many plastics, paints and coatings-**also see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Non halogenated solvent

**Storage/Disposal:** Glass or plastic bottles (if approved for flammables) tightly closed, away from sources of ignition in fume hood or flammable storage area for disposal..

**Incompatibilities:** Avoid oxidisers, reducing agents, acids, alkalis, Chloroform-see MSDS for more details.

### EMERGENCY RESPONSE

If Spill: Contain spillage by any means, evacuate, requires breathing apparatus to clean up

Risk of explosion or fire: low moderate high

Material to absorb spill/neutralise spill:

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.

### ANU Risk Category:

A (low risk)

B1 (lower moderate risk)

B2 (higher moderate risk)

C1 (lower significant risk)

C2 (higher significant risk)

D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Pentane**

UN#: 1265

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	<b>volatile liquid</b>	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	<b>toxic</b>	<b>irritant</b>	can cause dermatitis	
flammable	<b>highly flammable</b>		explosive	sensitiser ( <i>skin or respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
harmful (by acute exposure)		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	<b>inhalation</b>	<b>skin contact</b>	ingestion		
<b>eye or mucous membrane contact</b>		inoculation or injection			

### SPECIAL NOTES

**Storage:** **Store tightly closed in Flammables area, away from sources of ignition.**

**Handling Precautions:** eye protection: **glasses** **goggles** face shield  
**fume hood** respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex **Nitrile** Neoprene **PE/EVAL**

**Conditions to Avoid:** -see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** **Non halogenated solvent**

**Storage/Disposal:** **Keep in glass bottles with tightly closed lid, in fume hood or flammable storage area-small amounts may be disposed of by evaporation in a fume hood.**

**Incompatibilities:** **Avoid strong oxidisers.**

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, consider evacuation**

Risk of explosion or fire: low moderate **high**

Material to **absorb spill**/neutralise spill:

**First Aid:** **Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.**

#### ANU Risk Category:

A (low risk)

B1 (lower moderate risk)

B2 (higher moderate risk)

**C1 (lower significant risk)**

C2 (higher significant risk)

D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

# HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Petrolium Spirit, HFP**

UN#: 1268

MSDS consulted: **Yes/No**

## SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	<b>liquid</b>	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
Corrosive	oxidiser	<b>toxic</b>	irritant	can cause dermatitis	
<b>flammable</b>	highly flammable		explosive	sensitiser ( <i>skin or respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
<b>harmful (by acute exposure)</b>		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	<b>inhalation</b>		<b>skin contact</b>		ingestion
<b>eye or mucous membrane contact</b>		inoculation or injection			

## SPECIAL NOTES

**Storage:** **Store tightly closed in Flammables area, away from sources of ignition.**

**Handling Precautions:** eye protection: **glasses** **goggles** face shield

**fume hood** respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** **PVC** Latex Nitrile Neoprene PE/EVAL

Other

**Conditions to Avoid:** -see Incompatibilities below.

## WASTE HANDLING

**Label/Category:** **Non halogenated solvent**

**Storage/Disposal:** **Keep locked up, in original containers with tightly closed lid, in fume hood or flammable storage area for disposal.**

**Incompatibilitites:** **Avoid storing with oxidisers.**

## EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, eliminate ignition sources, consider evacuation**

Risk of explosion or fire: low moderate **high**

Material to **absorb spill**/neutralise spill:

**First Aid:** **Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.**

## ANU Risk Category:

A (low risk)

B1 (lower moderate risk)

**B2 (higher moderate risk)**

C1 (lower significant risk)

C2 (higher significant risk)

D (high risk)

**Compiled by :** Ginny Sargent \_\_\_\_\_ **Date :** 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** Phenol:Chloroform

UN#: 2810

MSDS consulted: Yes/No

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
<b>Corrosive</b>	oxidiser	toxic	irritant	can cause dermatitis	
flammable	highly flammable		explosive	sensitiser (skin or respiratory system)	
can cause pulmonary oedema			asphyxiation	potential electrocution	
<b>harmful (by acute exposure)</b>			<b>harmful (by repeated exposure)</b>		
reacts violently with water			large scale reaction		
Other (please specify) :	_____				
<b>Route of Exposure:</b>	inhalation	skin contact	ingestion		
<b>eye or mucous membrane contact</b>	inoculation or injection				

### SPECIAL NOTES

**Storage:** Store tightly closed away from in well ventilated area.

**Handling Precautions:** eye protection: glasses goggles face shield  
fume hood respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex Nitrile Neoprene PE/EVAL Notes  
Chloroform has fast permeation rates with all glove types-change gloves immediately if touched by chemical

**Conditions to Avoid:**-see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** Halogenated solvent

**Storage/Disposal:** Keep in a dark glass or steel container (NOT plastic), tightly closed in a well ventilated place, away from sunlight.

**Incompatibilitites:** Do not mix with Acetone, strong alkali, strong oxidisers, halogens, calcium hypochlorite, methanol, metals or NaOH.-see MSDS for more details

### EMERGENCY RESPONSE

If Spill: Contain spillage by any means, consider evacuation

Risk of explosion or fire: low moderate high

Material to absorb spill/neutralise spill: Clean up with water and detergent

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.

### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	B2 (higher moderate risk)
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name: Phenol**

UN#: 1671

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	volatile liquid	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	teratogen	radioactive
<b>Corrosive</b>	oxidiser	toxic	irritant	can cause dermatitis	
flammable	highly flammable		explosive	sensitiser (skin or respiratory system)	
can cause pulmonary oedema		asphyxiation		potential electrocution	
<b>harmful (by acute exposure)</b>		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) :	_____				
<b>Route of Exposure:</b>	inhalation	skin contact	ingestion		
<b>eye or mucous membrane contact</b>	inoculation or injection				

### SPECIAL NOTES

**Storage:** Store tightly closed away from in well ventilated area.

**Handling Precautions:** eye protection: glasses goggles face shield  
fume hood respirator special clothing colleague in attendance

Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex Nitrile Neoprene PE/EVAL

**Conditions to Avoid:**-see Incompatibilities below. **Do not heat**

### WASTE HANDLING

**Label/Category:** Non-Halogenated solvent (Halogenated if mixed with Chloroform)

**Storage/Disposal:** Keep in a dark glass or steel container (NOT plastic), tightly closed in Chemical Store.

**Incompatibilities:** Segregate from strong oxidisers, halogens, calcium hypochlorite and metals.-see MSDS for more details

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, consider evacuation**

Risk of explosion or fire: low moderate high

Material to absorb spill/neutralise spill: **Clean up with water**

**First Aid:** Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.

### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	B2 (higher moderate risk)
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

**Compiled by :** Ginny Sargent \_\_\_\_\_ **Date :** 2 / Jan / 2003

## HEALTH AND SAFETY RISK ASSESSMENT FORM

**Hazardous Substance Name:** **Xylene**

UN#: 1307

MSDS consulted: **Yes/No**

### SUMMARY OF SAFETY HAZARDS OR TOXIC EFFECTS

<b>State:</b>	solid	liquid	<b>volatile liquid</b>	gas	
<b>Nature of Hazard:</b>		carcinogen	mutagen	<b>teratogen</b>	radioactive
Corrosive	oxidiser	toxic	<b>irritant</b>	can cause dermatitis	
<b>flammable</b>	highly flammable		explosive	sensitiser ( <i>skin or respiratory system</i> )	
can cause pulmonary oedema		asphyxiation		potential electrocution	
<b>harmful (by acute exposure)</b>		<b>harmful (by repeated exposure)</b>			
reacts violently with water		large scale reaction			
Other (please specify) : _____					
<b>Route of Exposure:</b>	<b>inhalation</b>		<b>skin contact</b>		ingestion
<b>eye or mucous membrane contact</b>		inoculation or injection			

### SPECIAL NOTES

**Storage:** Store tightly closed in Flammables area, away from sources of ignition.

**Handling Precautions:** eye protection: **glasses** **goggles** face shield  
fume hood respirator special clothing colleague in attendance  
Other (please specify) : \_\_\_\_\_

**Appropriate Gloves:** PVC Latex **Nitrile** Neoprene **PE/EVAL**

**Conditions to Avoid:** -see Incompatibilities below.

### WASTE HANDLING

**Label/Category:** **Non halogenated solvent**

**Storage/Disposal:** **Keep locked up, in glass or plastic bottles (if approved for flammables) with tightly closed lid, in fume hood or flammable storage area for disposal.**

**Incompatibilities:** **Avoid storing with oxidisers.**

### EMERGENCY RESPONSE

If Spill: **Contain spillage by any means, eliminate ignition sources, consider evacuation**

Risk of explosion or fire: low **moderate** high

Material to **absorb spill/neutralise spill:** **Clean up with water and detergent.**

**First Aid:** **Remove contaminated clothing, wash with water for at least 15 minutes, see MSDS for further instructions.**

#### ANU Risk Category:

A (low risk)	B1 (lower moderate risk)	<b>B2 (higher moderate risk)</b>
C1 (lower significant risk)	C2 (higher significant risk)	D (high risk)

Compiled by : Ginny Sargent \_\_\_\_\_ Date : 2 / Jan / 2003

