

# MATERIAL SAFETY DATA SHEET

## M122 Kovacs Indole Reagent

### 1 Identification of substance ( hazardous details)

Periodic acid acid dilute - Corrosive liquid

#### Manufacturer/Supplier:

GCC Diagnostics / Gainland Chemical Company. Factory Road. Sandycroft. Deeside. Flintshire. UK. CH5 2QJ.

Tel: 01244 53 63 26. Fax: 01244 53 12 54.

Emergency Phone: 01244 53 63 26

Web Site: [www.gccdiagnostics.com](http://www.gccdiagnostics.com).

Emergency information:

During normal hours the Health, Safety and Environmental Department. 01244 536326

### 2 Composition/Data on hazardous components:

Chemical characterization:

Intentional mixtures containing non-hazardous and the components listed above.

### 3 Hazards identification:

Hazard designation: C Corrosive . Xn Harmful

Information pertaining to particular dangers for man and environment

### 4 First aid measures

After inhalation

Supply fresh air. Inhalation of sulphur dioxide can cause systemic acidosis or pulmonary edema at moderate concentrations. If required, provide oxygen / artificial respiration. Keep patient warm. Seek emergency medical assistance.

After skin contact Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Skin may discolour (red) with oxidised dyestuff.

After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing .Rinse out mouth and throat - do not swallow. Seek immediate medical advice on what treatment to administer.

### 5 Fire fighting measures:

Suitable extinguishing agents CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet .

Special hazards caused by the material, its products of combustion or flue gases:

Can be released in case of fire: Oxides of Carbon, Chlorine and Iodine.

Special hazards in fire situations ; None

### 6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation. Keep away from ignition sources. Measures for environmental protection: Avoid release to water courses.

Measures for cleaning/collecting: Absorb with cloths or liquid-binding material (sand, mica vermiculite ,diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Keep away from ignition sources. Wash area and retain wash liquor for disposal through hazardous waste contractor.

### 7 Handling and storage

#### Handling

Information for safe handling: Keep containers tightly sealed. Store in cool, dark place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Sulphur dioxide gas maybe present.

Information about protection against explosions and fires: N/A.

## Storage

Requirements to be met by storerooms and containers: Store in a Corrosive / Toxic locked cabinet.  
Information about storage in one common storage facility: Away from strong alkalis.

Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

## 8 Exposure controls and personal protection

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Components with critical values that require monitoring at the workplace:

**< 2% w/v aqueous - No data available. Risk -Low.**

### Personal protective equipment

General protective and laboratory hygienic measures The usual precautionary measures should be adhered to in handling laboratory chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Breathing / ventilation equipment: Use breathing protection with high concentrations otherwise work in a well ventilated area or under a fume hood.

Protection of hands: Impervious gloves

Eye protection: Safety glasses

Face protection: Mask

Body protection: Protective work clothing

## 9 Physical and chemical properties:

|                         |                |
|-------------------------|----------------|
| Form:                   | liquid         |
| Colour:                 | straw coloured |
| Odour:                  |                |
| Boiling point (range) : | 90 - 100       |
| Flashpoint:             | N/A            |
| Ignition temp:          | N/A            |
| Danger of explosion:    | No             |
| Soluble with water:     | Yes            |

## 10 Stability and Reactivity.

Stable.

Thermal decomposition / conditions to be avoided: None.

Oxidizing agents - Alkali metals, strong alkalis

Dangerous reactions: None known

Dangerous products of decomposition: Oxides of Carbon.

## 11 Toxicological information

Relative to small amounts supplied with the kit. In general the reagents in this kit contain small amounts of the pure substances for which the data below is provided. The data below being for the 100% pure dry or liquid substance.

### Primary irritant effect:

On the skin: Irritant for skin

On the eye: Severe Irritant effect, may cause serious eye damage.

On the respiratory system: Severe irritant at low concentrations.

Sensitization: No data

### LD50 / LC50

**No data**

### Carcinogenicity

No component listed by IARC

## **Epidemiology**

No component listed or no data

## **Tetragenicity**

No component listed or no data

## **Reproductive Effect**

**No component listed or no data**

## **Mutagenicity**

No component listed or no data

## **Neurotoxicity**

No component listed or no data

## **Other studies - Additional Toxicological Information**

**No Data**

## **12 Ecological information**

Ecotoxicity: No data available. This material is expected to neutralise rapidly in the environment.

## **13 Disposal considerations**

Recommendation

In the quantities supplied and in normal usage. Dispose of to public sewer diluting greatly with tapwater. Consult state, local or national regulations for proper disposal. If required hand over to licensed disposers of hazardous waste.

Packagings:

Recommendation: Rinse with water to drain and recycle as PE.

Recommended cleaning agent: Water and surfactant.

## **14 Transport information**

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)  
Air – IATA. Sea – IMO

Proper shipping name: Corrosive liquid, acidic, inorganic, NOS UN 3264 Class 8 Pk Grp III

## **15 Regulatory information**

Designation according to EC guidelines:

Code letter and hazard designation of product: X Harmful

H302+312+332 Harmful if swallowed, by skin contact and inhalation

H315 Causes skin irritation

H320 Causes eye irritation

P262 Do not get in eyes, skin or on clothing

P302 + P350 If on skin gently wash with plenty of soap and water

P305+P351+P338 IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses if Present and easy to do so. Continue rinsing.

P233 Keep container tightly closed in a well ventilated place.

P281 use personal protective equipment as required

## **16 Additional Information**

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Information about limitation of use:

For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.

## **GCC Diagnostics**

(Gainland Chemical Co) Factory Road. Sandycroft. Deeside. Flintshire. United Kingdom.

Tel: 01244 53 63 26 Fax: 01244 53 12 54

E-mail: [gainland@btconnect.com](mailto:gainland@btconnect.com) Website: [www.gccdiagnostics.com](http://www.gccdiagnostics.com)

