

**UNCONTROLLED**

WILLIAM A. COOK AUSTRALIA PTY. LTD.

95 BRANDL STREET

BRISBANE TECHNOLOGY PARK, EIGHT MILE PLAINS

BRISBANE, QLD 4113, AUSTRALIA

PHONE: 1800.777.222 FAX: +61.7.3841.1288

WWW.COOKMEDICAL.COM

ABN 79 005 526 723

# MATERIAL SAFETY DATA SHEET

**Product Name:** GRADIENT SOLUTION

## 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name:** WILLIAM A. COOK AUSTRALIA PTY LTD  
**Address:** 95 Brandl Street, Eight Mile Plains QLD, 4113, AUSTRALIA  
ABN 79 005 526 723  
**Telephone:** 61 7 3841 1188  
**Fax:** 61 7 3841 1288  
**Emergency:** 1800 777 222 (EST 6am-5pm Weekdays)  
**Synonyms**  
K-SISG, K-SISP  
**Uses**  
LABORATORY REAGENT, LABORATORY APPLICATIONS.

## 2 HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA  
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient:</b>	<b>Formula</b>	<b>Conc.</b>	<b>CAS No.</b>
Ethylenediaminetetra-Acetic Acid (EDTA)	C10-H16-N2-O8	<0.1%	60-00-4
Human Serum Albumin (HSA)		<10%	Not Available
Gentamycin		<0.01%	1403-66-3
Silane-Coated Silica		>60%	Not Available

## 4 **FIRST AID MEASURES**

### **Eye**

Flush gently with running water. Seek medical attention if irritation persists.

### **Inhalation**

If over-exposure occurs, leave exposure area immediately. If irritation persists, seek medical attention.

### **Skin**

Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

### **Ingestion**

For advice, contact a Poisons Information Centre on 13 11 26 (Australia-wide) or a doctor. If swallowed, do not induce vomiting.

### **Advice to Doctor**

Treat symptomatically.

## 5 **FIRE-FIGHTING MEASURES**

### **Flammability**

Non-flammable. No fire or explosion hazard exists.

### **Fire and Explosion**

Non-flammable. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self-Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

**Extinguishing**                      Non-flammable.

**Hazchem Code**                      None Allocated

## 6 **ACCIDENTAL RELEASE MEASURES**

### **Spillage**

If spilt (bulk), wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots. Absorb spill with sand or similar, collect and place in sealable containers for disposal. Prevent spill entering drains or waterways. Caution: Slippery when spilt.

## 7 **HANDLING AND STORAGE**

### **Handling**

Before use carefully read the product label. Use of safe work practices is recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas (eg. if container is damaged).

### **Storage**

Store in cool, dry area, removed from foodstuffs. Ensure containers are labelled, protected from physical damage and sealed when not in use.

## 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Ventilation**

Ensure adequate natural ventilation.

### **Exposure Standards**

An exposure standard (ES-TWA, ES-STEL, WES-TWA, ES-PEAK, ES-TLV) has not been allocated to the ingredients contained in this product.

### **PPE**

Wear splash-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear coveralls.

## 9 **PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	Liquid
<b>Odour</b>	Slight Odour
<b>pH</b>	Not Available
<b>Vapour Pressure</b>	Not Available
<b>Vapour Density</b>	Not Available
<b>Boiling Point</b>	Not Available
<b>Melting Point</b>	Not Available
<b>Evaporation Rate</b>	Not Available
<b>Solubility (water)</b>	Insoluble
<b>Specific Gravity</b>	Not Available
<b>% Volatiles</b>	Not Available
<b>Flammability</b>	Non-flammable
<b>Flash Point</b>	Not Relevant
<b>Upper Explosion Limit</b>	Not Relevant
<b>Lower Explosion Limit</b>	Not Relevant
<b>Autoignition Temperature</b>	Not Available

## 10 **STABILITY AND REACTIVITY**

### **Reactivity**

Compatible with most commonly used materials.

### **Decomposition Products**

May evolve toxic gases if heated to decomposition.

## 11 TOXICOLOGICAL INFORMATION

### Health Hazard Summary

Low toxicity - low irritant. This product may only present a hazard with direct eye contact or with prolonged and repeated skin contact. No chronic effects are anticipated with normal use.

### Eye

Low irritant. Exposure may result in irritation and lacrimation.

### Inhalation

Low irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

### Skin

Low irritant. Prolonged and repeated contact may result in irritation, skin rash and dermatitis.

### Ingestion

Low toxicity. With large doses ingestion may result in nausea, vomiting and gastrointestinal irritation.

### Toxicity Data

ETHYLENEDIAMINETETRA-ACETIC ACID (EDTA)  
(60-00-4) LD50 (Ingestion): 30 mg/kg (mouse)

## 12 ECOLOGICAL INFORMATION

### Environment

This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities. Not expected to bioaccumulate.

## 13 DISPOSAL CONSIDERATIONS

### Waste Disposal

For small amounts, absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information. Ensure that appropriate personal protective equipment is used during disposal.

### Legislation

Dispose of in accordance with relevant local legislation.

## 14 TRANSPORT INFORMATION

### Transport

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

<b>UN Number</b>	None Allocated
<b>DG Class</b>	None Allocated
<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated
<b>Hazchem Code</b>	None Allocated

**15 REGULATORY INFORMATION****AICS**

All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

**Poison Schedule**

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**16 OTHER INFORMATION****ADDITIONAL INFORMATION**

Additional supplier contact details:

Cook Medical Incorporated, PO Box 4195, Bloomington, Indiana 47402-4195, USA.

Phone: 812 339 2235, Toll Free: 800 457 4500, Toll Free Fax: 800 554 8335.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report, which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**ABBREVIATIONS:**

mg/m<sup>3</sup>: Milligrams per cubic metre

ppm: Parts Per Million

TWA/ES: Time Weighted Average or Exposure Standard.

CNS: Central Nervous System

NOS: Not Otherwise Specified

pH: Relates to hydrogen ion concentration – this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS#: Chemical Abstract Service number – used to uniquely identify chemical compounds.

M: Moles per litre, a unit of concentration.

IARC: International Agency for Research on Cancer.

**Report Reviewed** 13 April 2011

**Date Printed** 13 April 2011

**Report Status**

Chem Alert reports are compiled as an independent source of information by RMT's scientific department. The information is based on the latest chemical and toxicological research and in compliance with relevant standards, guidance notes and legislation (where applicable). The Chem Alert report is not intended as a replacement to the manufacturers' original MSDS that is provided to Chem Alert subscribers for convenience. In many instances Chem Alert reports are compiled on behalf of manufacturers, in which case they serve as the 'Manufacturers' MSDS' and are clearly identified as such on the relevant reports.