

# **SAFETY DATA SHEET**

# SECTION 1: PRODUCT AND COMPANY INFORMATION

**Product name:** Component D4

**Contact:** 

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### **SECTION 2: HAZARD IDENTIFICATION**

# **GHS** classification of the substance/mixture:

Acute toxicity - Dermal (Category 4)

For full text of the H-Statements mentioned in this Section, see Section 16.

# **GHS** label elements, including precautionary statements:

Hazard picograms:

**(!)** 

Signal word: Warning

# **GHS** label elements, including precautionary statements:

Precautionary Statements - Prevention Wear protective gloves/protective clothing/eye

protection/face protection.

advice/attention

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before

reuse.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

Substance/Mixture: Mixture

Hazardous Ingredients

Chemical Name	CAS-No.	GHS-US Hazardous Calssification	Concentration (%)
Dibutyryl-cAMP	16980-89-5	Acute Tox. 4	<5



#### **SECTION 4: FIRST AID MEASURES**

**Description of necessary measures.** 

General advice If symptoms persist, call a physician. Do not

breathe dust/fume/gas/mist/vapors/spray. Do not get

in eyes, on skin, or on clothing.

Eye contact Immediately flush with plenty of water. After initial

flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a

physician.

Skin Contact Consult a physician if necessary. Wash off

immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove to fresh air Call a physician If breathing is

irregular or stopped, administer artificial respiration Avoid direct contact with skin. Use barrier to give

mouth-to-mouth resuscitation.

Ingestion Rinse mouth. Drink plenty of water. If symptoms

persist, call a physician. Do NOT induce vomiting.

Self-protection of the first aider

Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# **SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** 

Suitable Extinguishing Media Use extinguishing measures that are appropriate to

local circumstances and the surrounding

environment.

Unsuitable Extinguishing Media None.

Specific hazards arising from the substance or mixture:

Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Sodium oxides.

Special protective equipment and precautions for firefighters:

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.



### SECTION 6: ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures:

For personal protection use safety glasses, lab coat, and gloves. Ensure adequate ventilation, especially in confined areas.

# **Environmental precautions:**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional Ecological Information

# Methods and materials for containment and cleaning up:

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Take up

mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface

thoroughly.

### **SECTION 7: HANDLING AND STORAGE**

# **Precautions for safe handling:**

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal

protective equipment as required. Wash contaminated

clothing before reuse. Do not breathe

dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Corrosive hazard. Wear protective gloves/clothing and eye/face

protection.

# Conditions for safe storage, including any incompatibilities:

Storage conditions Keep container tightly closed in a dry and well-ventilated

place. Keep out of the reach of children. Store at -20 °C.

Incompatible materials None known based on information supplied.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

Exposure Guidelines This product, as supplied, does not contain any hazardous

materials with occupational exposure limits established by the

region specific regulatory bodies.



# **Appropriate engineering controls**

Engineering Controls Showers

Eyewash stations Ventilation systems

# Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with

current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and

safety practice.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Aqueous solution. Odor: No data available. Odor threshold: No data available No data available. pH: No data available. Melting point/freezing point: Initial boiling point and boiling range: No data available Flash point: No data available. Evaporation rate: No data available. Flammability (solid, gas): No data available. Upper/lower flammability or explosive limits: No data available. Vapor pressure: No data available Vapor density: No data available. Relative density: No data available Solubility(ies): No data available. Partition coefficient: n-octanol/water: No data available. Auto-ignition temperature: No data available. Decomposition temperature: No data available. No data available Viscosity: Explosive properties: No data available. Oxidizing properties: No data available.

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity: Stable under recommended transport and storage

conditions.



Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport

or storage conditions.

Conditions to avoid: Heat, moisture, and direct sunlight.

Incompatible materials: Strong acids/alkalis, strong oxidizing/reducing agents.

Hazardous decomposition products: Carbon oxides. Nitrogen oxides (NOx).

### SECTION 11: TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Inhalation No data available.
Eye contact No data available.
Skin Contact No data available.
Ingestion No data available.

### **Information on toxicological effects**

Symptoms No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

# **Numerical measures of toxicity - Product Information**

Unknown acute toxicity No information available

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5000 mg/kg ATEmix (dermal) 2000 mg/kg

### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** May cause long lasting harmful effects to aquatic

life.

**Bioaccumulative potential:**No data available. **Mobility in soil:**No data available.

Other adverse effects: None.

#### **SECTION 13: DISPOSAL INFORMATION**

**Disposal methods:** Dispose of waste in accordance to applicable national, regional, or local regulations.

**Contaminated packaging:** Dispose in the same manner as unused product.

**Special precautions:** Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilt material to soil, waterways, drains and sewers.



# **SECTION 14: TRANSPORT INFORMATION**

# DOT (US)

Not dangerous goods.

### **IMDG**

Not dangerous goods.

#### **IATA**

Not dangerous goods.

# **SECTION 15: REGULATORY INFORMATION**

### **International Inventories:**

All of the components in the product are on the following Inventory lists Europe (EINECS/ELINCS/NLP) South Korea (KECL): China (IECSC)

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Dibutyryl- cAMP	-	-	-	X	-	-	X	X	-	-

### X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

# **US Federal Regulations:**

### SARA 302 Components.

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# **SARA 313 Components**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.



#### SARA 311/312 Hazards

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No

# **US State regulations:**

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### **SECTION 16: OTHER INFORMATION**

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