

# **SAFETY DATA SHEET**

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## **SECTION 1: PRODUCT AND COMPANY INFORMATION**

**Product name:** Component B

**Contact:**

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## **SECTION 2: HAZARD IDENTIFICATION**

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

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

**Other hazards which do not result in the classification or are not covered by the GHS:**

None.

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## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE**

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

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

**Description of necessary measures.**

Inhalation: Provide fresh air and contact physician if complaint persists or symptoms develop.  
Skin contact: Wash off with soap and plenty of water.  
Eye contact: Flush eyes with water. Then consult a doctor.  
Ingestion; Rinse mouth with water. Seek medical attention and appropriate follow-up.

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

**Suitable extinguishing media:**

This product is non-flammable. Use water spray, alcohol-resistant foam, dry-chemical or carbon dioxide.

**Specific hazards arising from the substance or mixture:**

No specific fire or explosion hazard.

**Special protective equipment and precautions for fire-fighters:**

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

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:**

For personal protection use safety glasses, lab coat, and gloves.

**Environmental precautions:**

Do not let product enter drains.

**Methods and materials for containment and cleaning up:**

Absorb liquid components with liquid-binding material. Pick up mechanically. Dispose contaminated material as waste according to section 13.

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**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling:**

No special measures required. No special precautions are necessary if used correctly.

**Conditions for safe storage, including any incompatibilities:**

Store according to product specifications.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure limits:**

We are not aware of any national exposure limit.

**Appropriate engineering controls:**

Follow usual standard laboratory practices. Use appropriate chemical resistant gloves.

**Personal protective equipment:**

Respiratory: In case of insufficient ventilation wear suitable respiratory equipment.

Eyes: Safety goggles or splash guard safety glasses.

Body: Lab coat and gloves.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Aqueous solution.
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
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.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

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## SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No data available.
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 and moisture.
Incompatible materials:	Strong acids/alkalis, strong oxidizing/reducing agents.
Hazardous decomposition products:	

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## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute toxicity:

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Dimethyl sulfoxide	= 14,500 mg/kg (Rat)	>5,000 mg/kg (Rabbit)	40250 ppm 4h (Rat)
Colforsin	= 2,550 mg/kg (Rat)	no data available	no data available

**Skin corrosion/irritation:** No data available.

**Serious eye damage/eye irritation:** No data available.

**Respiratory or skin sensitization:** No data available.

**Mutagenicity:** No data available.

**Carcinogenicity:**

## Dimethyl sulfoxide

Rat – Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages:

Other: Tumors.

Mouse – Oral

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Leukemia Skin and

Appendages: Other: Tumors.\

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

## **Reproductive toxicity:**

### Dimethyl sulfoxide

Rat – Intraperitoneal

Effects on Fertility: Abortion.

Rat – Intraperitoneal

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Rat – Subcutaneous

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Litter size (e.g., #fetuses per litter; measured before birth).

Mouse – Oral

Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.

## **Specific target organ toxicity:**

No data available.

## **Aspiration hazard:**

No data available.

**Additional Information:**

Dimethyl sulfoxide

RTECS: PV6210000

Effects due to ingestion may include: Nausea, Fatigue, Headache

To the best of our knowledge, the chemical physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12: ECOLOGICAL INFORMATION****Toxicity:**

Dimethyl sulfoxide

Toxicity to fish:

LC50 – Pimephales promelas (fathead minnow) – 34,000 mg/l – 96h

LC50 – Oncorhynchus mykiss (rainbow trout) – 35,000 mg/l – 96h

Toxicity to daphnia and other aquatic invertebrates:

EC50 – Daphnia magna (Water flea) – 24,600 mg/l – 48h

(OECD Test Guideline 202)

Toxicity to algae:           Duration 48h – mg/l: 9268

**Persistence and degradability:**

Dimethyl sulfoxide

Result: 31% - According to the results of tests of biodegradability this product is not readily biodegradable.

(OECD Test Guideline 301D)

**Bioaccumulative potential:**

No data available.

**Mobility in soil:**

No data available.

**Results of PBT and vPvB assessment:**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other adverse effects:**

No data available.

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**SECTION 13: DISPOSAL INFORMATION****Waste treatment methods:****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### **Contaminated packaging**

Dispose of as unused product.

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## **SECTION 14: TRANSPORT INFORMATION**

### **DOT (US)**

NA-Number: 1993

Class: None

Packaging group: III

Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide)

### **IMDG**

Not dangerous goods.

### **IATA**

Not dangerous goods.

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## **SECTION 15: REGULATORY INFORMATION**

### **SARA 302 Components**

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

### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard.

US State regulations:

### **Massachusetts Right To know Components**

No components are subject to the Massachusetts Right to Know Act.

### **Pennsylvania Right To Know Components**

	CAS-No
4-(5-Benzol[1,3]dioxol-5-yl-4-pyridin-2-yl-1H-imidazol-2-yl)-benzamide hydrate	-
6-[4-(2-Piperidin-1-ylethoxy)phenyl]-3-pyridin-4-ylpyrazolo[1,5-a]pyrimidine	866405-64-3
Colforsin	66575-29-9
Dimethyl sulfoxide	67-68-5

## New Jersey Right To Know Components

	CAS-No
4-(5-Benzol[1,3]dioxol-5-yl-4-pyridin-2-yl-1H-imidazol-2-yl)-benzamide hydrate -	
6-[4-(2-Piperidin-1-ylethoxy)phenyl]-3-pyridin-4-ylpyrazolo[1,5-a]pyrimidine	866405-64-3
Colforsin	66575-29-9
Dimethyl sulfoxide	67-68-5

## 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.

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## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

#### 6-[4-(2-Piperidin-1-ylethoxy)phenyl]-3-pyridin-4-ylpyrazolo[1,5-a]pyrimidine

Acute Tox.	Acute toxicity
H302	Harmful if swallowed.
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.
H312	Harmful in contact with skin.

#### Colforsin

Acute Tox.	Acute toxicity
H312	Harmful in contact with skin.

#### Dimethyl sulfoxide

Flam. Liq.	Flammable liquids.
H227	Combustible liquid.

## HMIS Rating

#### 4-(5-Benzol[1,3]dioxol-5-yl-4-pyridin-2-yl-1H-imidazol-2-yl)-benzamide hydrate

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard:	0

#### 6-[4-(2-Piperidin-1-ylethoxy)phenyl]-3-pyridin-4-ylpyrazolo[1,5-a]pyrimidine

Health hazard:	2
Chronic Health Hazard:	
Flammability:	0
Physical Hazard:	0

Colforsin

Health hazard: 1

Chronic Health Hazard:

Flammability: 0

Physical Hazard: 0

Dimethyl sulfoxide

Health hazard: 0

Chronic Health Hazard:

Flammability: 2

Physical Hazard: 0

**NFPA Rating**

4-(5-Benzol[1,3]dioxol-5-yl-4-pyridin-2-yl-1H-imidazol-2-yl)-benzamide hydrate

Health hazard: 0

Fire Hazard: 0

Reactivity Hazard: 0

6-[4-(2-Piperidin-1-ylethoxy)phenyl]-3-pyridin-4-ylpyrazolo[1,5-a]pyrimidine

Health hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

Colforsin

Health hazard: 1

Fire Hazard: 0

Reactivity Hazard: 0

Dimethyl sulfoxide

Health hazard: 0

Fire Hazard: 2

Reactivity Hazard: 0

**Other comments:**

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