46117 Landing Parkway, Fremont, CA 94538 U.S.A.
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# SAFETY DATA SHEET

Date: February 11, 2021

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Oxazole Yellow Homodimer, 1 mM in DMSO
**Catalog Number:** 40090
**Unit Size:** 100 uL
**Manufacturer/Supplier:** Biotium, Inc.
46117 Landing Parkway, Fremont, CA 94538, USA
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Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

## 2. HAZARDS IDENTIFICATION

**GHS Classification**
**Signal word** Warning
**Health hazards** None
**Physical hazards**
GHS Physical Hazard 1 - Flammable
GHS Physical Hazard Category 4
**Hazard statements**
H227 - Combustible liquid
**Precautionary statements**
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P370 + P378 - In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction
**WHMIS classification**
Flammable liquids, category 4

**HMIS Classification**
Health hazard: 1
Flammability: 2
Physical hazards: 0
**NFPA Rating**
Health hazard: 1
Fire: 2
Reactivity Hazard: 0

**Classification according to Regulation (EC) No 1272/2008[CLP]** None
**Classification according to Directive 1999/45/EC** None

**Labeling according to Regulation (EC) No 1272/2008[CLP]**
**Hazard pictogram** None
**Signal word** None
**Hazard statements** None
**Precautionary statements** None

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS No. | EC No. | Index No. | Weight **%** | Classification according to regulation (EC)No1278/2008 |
|---|---|---|---|---|---|
| DMSO | 67-68-5 | 200-664-3 | **-** | >99% | NA |

## 4. FIRST- AID MEASURES

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician.
**In case of eye contact**
Flush eyes with water as a precaution.
**If swallowed**
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

**Suitable extinguishing media**
Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.
**Special protective equipment for firefighters**
Wear self contained breathing apparatus for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Avoid breathing vapors, mist or gas. Remove all sources of ignition.
**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
**Methods and materials for containment and cleaning up**
Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**
Avoid inhalation of vapor or mist.
Avoid direct contact with substance.
**Conditions for safe storage**
Keep container tightly closed in a dry and well-ventilated place.
Store at -20°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**
Substance: Dimethylsulfoxide
CAS no. 67-68-5

| Country | Austria | Belgium | Denmark | European Union | France | Germany |
|---|---|---|---|---|---|---|
| Limit value,8hours | 160mg/m3 | - | 160mg/m3 | - | - | 160mg/m3 |
| Limit value, short term | - | - | 320mg/m3 | - | - | 320mg/m3 |

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| Country | Hungary | Italy | Poland | Spain | Sweden | Netherlands | Switzerland |
|---|---|---|---|---|---|---|---|
| Limit value,8hours | - | - | - | - | 160mg/m3 | - | 160mg/m3 |
| Limit value, short term | - | - | - | - | 500mg/m3 | - | 320mg/m3 |

| Country | United Kingdom | USA-NIOSH | USA-OSHA | Australia | Canada | Japan | South Korea |
|---|---|---|---|---|---|---|---|
| Limit value,8hours | - | - | - | - | - | - | - |
| Limit value, short term | - | - | - | - | - | - | - |

**Personal protective equipment**
**Hand protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
**Respiratory protection**
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
**Eye protection**
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
**Hygiene measures**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Chemical Name | Oxazole Yellow Homodimer, 1 mM in DMSO |
|---|---|
| Appearance | Yellow liquid |
| Odor | No data available |
| Odor threshold | No data available |
| pH | No data available |
| Melting point/freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Evaporate rate | No data available |
| Flammability | No data available |
| Explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Solubility | 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 |

## 10. STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions.
**Possibility of hazardous reactions**

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No data available
**Conditions to avoid**
Heat, flames and sparks.
**Materials to avoid**
No data available
**Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
**Oral LD50** rat - 14,500 mg/kg
**Inhalation LC50** Inhalation - rat - 4 h - 40250 ppm
**Dermal LD50** rabbit - > 5,000 mg/kg
**Other information on acute toxicity** No data available
**Skin corrosion/irritation** No data available
**Serious eye damage/eye irritation** No data available
**Respiratory or skin sensitization** No data available
**Germ cell mutagenicity** Salmonella typhimurium assay (Ames test): negative (+/- activation), DMSO is used as a neutral solvent in the Ames mutagen test
**Carcinogenicity**
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 a carcinogen or potential carcinogen by ACGIH.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
**Reproductive toxicity** Experiments have shown reproductive toxicity effects on laboratory animals (Dimethyl sulfoxide)
**Specific target organ toxicity - single exposure (Globally Harmonized System)**
No data available
**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**
No data available
**Aspiration hazard**
May cause respiratory irritation
**Potential health effects**
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
**Additional Information**
RTECS: PV6210000 (DMSO)

## 12. ECOLOGICAL INFORMATION

**Toxicity DMSO** The LC50(96hrs) for ten species of fish range from 32500 to 43000ppm
**Persistence and degradability** No information available
**Bioaccumulative potential** Dimethyl sulfoxide: biodegradation: 90% (28d).
**Mobility in soil** No information available
**Results of PBT and vPvB assessment** No information available
**Other adverse effects** No information available
**Additional information** No information available

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## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**
**Product**
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber by a licensed disposal company.

**Contaminated packaging**
Dispose of as unused product.

## 14. TRANSPORT INFORMATION

**IATA, IMDG, DOT (US), TDG** Not dangerous goods during transportation
**UN number** None
**UN proper shipping name** None
**Transport hazard class** None
**Packing group** None
**Environmental hazards** None
**Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code** None
**Special precaution for user** None

## 15. REGULATION INFORTMATION

**US Federal Regulations**
Us Toxic Substances Control Act (TSCA): Not listed
SARA 302: No chemicals were found .
SARA 313: No chemicals were found.
SARA 311/312 Hazards: DMSO : fire hazard, chronic health hazard
Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: Yes
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

**WHMIS Hazard Class**:
Flammable liquids, category 4

## 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008
Refer to section 2 and section 3

Prepared by: Regulatory Department
Biotium Inc.
Version no. 1
Revision date (Initials)
Reason for revision

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