

JCSG

1. Identification

Product identifier Wizard JCSG

Other means of identification Not available.

Recommended use For laboratory use.

Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

Company name Emerald BioSystems, Inc.

Address 7869 NE Day Road W
Bainbridge Island, WA

98110

US

Telephone General Information: 855-436-2467

E-mail MSDS@embios.com
Contact person Product department

Emergency phone number 24 Hour Emergency: 855-436-2467

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2B

OSHA hazard(s) Not classified.

Label elements

Hazard symbol No symbol.
Signal word Warning

Hazard statement Causes eye irritation.

Precautionary statement

Prevention Wash thoroughly after handling.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Mixture

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
Poly(oxy-1,2-ethanediyl) ethoxylated		25322-68-3	20.8
2-Methylpentane-2,4-diol		107-41-5	4.5
Sodium cacodylate		6131-99-3	0.2

Composition comments This Safety Data Sheet is a summation of the composition and hazards of the individual solutions

that comprise the product as a whole. Individual wells have varying compositions and hazard

profiles.

4. First-aid measures

InhalationIf symptomatic, move to fresh air. Get medical attention if symptoms persist.Skin contactWash with soap and water. Get medical attention if symptoms occur after washing.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms

persist.

Eye contact

Ingestion

Seek medical advice.

Most important

symptoms/effects, acute and

delayed

Causes eye irritation.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media

Water. Water fog. Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for firefighters None known.

Fire-fighting equipment/instructions Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

Methods and materials for containment and cleaning up

Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical

waste.

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike

for later disposal.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Use only with adequate

ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Keep container closed. Store away from incompatible materials (See Section 10).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value
2-Methylpentane-2,4-diol	Ceiling	25 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
2-Methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	125 mg/m3	
,		25 ppm	

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	Form	
Poly(oxy-1,2-ethanediyl) ethoxylated (CAS 25322-68-3)	TWA	10 mg/m3	Particulate.	

Biological limit values No biological exposure limits noted for the ingredient(s). Appropriate engineering Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Wear a full-face respirator, if needed.

Skin protection

Hand protection Chemical resistant gloves are recommended.

Other Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of

exposure. Contact health and safety professional or manufacturer for specific information.

Wizard JCSG

controls

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional

or manufacturer for specific information.

Thermal hazards Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance Not available.
Physical state Liquid.
Form Liquid.
Color Not available.
Odor Not available.
Odor threshold Not available.
pH Not available.

Melting point/freezing point Initial boiling point and boiling

range

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Vapor density

Relative density

Solubility(ies)

Partition coefficient
(n-octanol/water)

Not available.

No data available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is stable and non reactive under normal conditions of storage and transport.

Chemical stability Stable under the prescribed storage conditions.

Possibility of hazardous

Conditions to avoid

reactions

Hazardous polymerization will not occur.

Elevated temperatures.

Incompatible materials Strong oxidizing agents. Acids.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact Under normal conditions of intended use, this material does not pose a skin hazard.

Wizard JCSG

SDS US **3 / 5**

Causes eye irritation. Eye contact Symptoms related to the Causes eye irritation.

physical, chemical and toxicological characteristics

Information on toxicological effects

No adverse effects are expected. **Acute toxicity**

Skin corrosion/irritation Not assigned.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory sensitization Not assigned. Skin sensitization Not assigned. Germ cell mutagenicity Not assigned.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

Reproductive toxicity Specific target organ toxicity single exposure

Not assigned. Not assigned.

Specific target organ toxicity -

repeated exposure

Not assigned.

Aspiration hazard Not applicable.

12. Ecological information

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability No data available. Bioaccumulative potential Not available. Mobility in soil Not available. Not available. Other adverse effects

13. Disposal considerations

Disposal instructions Do not discharge into drains, water courses or onto the ground.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Recover and recycle, if practical.

Contaminated packaging Since emptied containers retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to

No information available.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Wizard JCSG

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous

Yes

chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

WARNING: This product contains chemicals known to the State of California to cause cancer

and birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

2-Methylpentane-2,4-diol (CAS 107-41-5) Cadmium chloride (CAS 10108-64-2)

US. New Jersey Worker and Community Right-to-Know Act

Sodium cacodylate (CAS 6131-99-3) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

2-Methylpentane-2,4-diol (CAS 107-41-5)

US. Rhode Island RTK

2-Methylpentane-2,4-diol (CAS 107-41-5)

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

1,4-Dioxane (CAS 123-91-1)

Cadmium chloride (CAS 10108-64-2)

Nickel chloride (CAS 7791-20-0)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
*A "Yes" indicates this product co	emplies with the inventory requirements administered by the governing country(s)	

16. Other information, including date of preparation or last version

Issue date 01-23-2013

Revision date - 01

Disclaimer The information given is based on data available for the material, the components of the material,

and similar materials.