

## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier:

Product name: Bromocresol purple ethanol(20) solution (0.5g/L)

Product code(SDS NO): 96735jis\_E-1

#### Details of the supplier of the safety data sheet

Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.

Address: 1-6, Ohmano-Cho, Koshigaya, Saitama 343-0844, Japan

Division: Quality Assurance Department

Telephone number: +81-48-986-6161

FAX: +81-48-989-2787

e-mail address: shiyaku-t@junsei.co.jp

### 2. Hazards identification

#### GHS classification and label elements of the product

#### Classification of the substance or mixture

##### HEALTH HAZARDS

Serious eye damage/eye irritation: Category 2

Carcinogenicity: Category 1A

Reproductive toxicity: Category 1A

Specific target organ toxicity – repeated exposure: Category 1(liver)

Specific target organ toxicity – repeated exposure: Category 2(central nervous system)

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

#### Label elements



Signal word: Danger

#### HAZARD STATEMENT

Causes serious eye irritation

May cause cancer

May damage fertility or the unborn child

Causes damage to organs(liver) through prolonged or repeated exposure

May cause damage to organs(central nervous system) through prolonged or repeated exposure

#### PRECAUTIONARY STATEMENT

##### Prevention

Do not handle until all safety precautions have been read and understood.

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

Wash contaminated parts thoroughly after handling.

Wear eye protection/face protection.

Use personal protective equipment as required.

Do not eat, drink or smoke when using this product.

##### Response

Get medical advice/attention if you feel unwell.

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.

Bromocresol purple ethanol(20) solution (0.5g/L),  
JUNSEI CHEMICAL CO., LTD.,96735jis\_E-1,23/08/2017

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/national regulation.

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### 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name:Bromocresol purple

Content(%):ca. 0.05 (w/v)

Chemical formula:C<sub>21</sub>H<sub>16</sub>Br<sub>2</sub>O<sub>5</sub>S

Chemicals No, Japan:5-533

CAS No.:115-40-2

MW:540.22

ECNO:204-087-8

Ingredient name:Ethyl alcohol

Content(%):15~16 (w/v)

Chemical formula:C<sub>2</sub>H<sub>5</sub>OH

Chemicals No, Japan:2-202

CAS No.:64-17-5

MW:46.07

ECNO:200-578-6

Ingredient name:Water

Content(%):Residual quantity of the ingredient mentioned above.

Chemical formula:H<sub>2</sub>O

CAS No.:7732-18-5

MW:18.02

ECNO:231-791-2

Note : The figures shown above are not the specifications of the product.

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### 4. First-aid measures

Descriptions of first-aid measures

General measures

Get medical attention/advice if you feel unwell.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

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.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

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## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

### Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

### Advice for firefighters

#### Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

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## 6. Accidental release measures

### Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.

Wear proper protective equipment.

### Environmental precautions

Avoid release to the rivers, lakes, ocean and groundwater.

### Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

### Preventive measures for secondary accident

Collect spillage.

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## 7. Handling and storage

### Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

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

(Protective measures against fire & explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

#### Exhaust/ventilator

Exhaust/ventilator should be available.

#### Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Avoid breathing dust, fume, gas, mist or vapor.

#### Safety Measures/Incompatibility

Do not handle until all safety precautions have been read and understood.

Wear protective gloves, protective clothing or face protection.

Wear eye protection/face protection.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

### Conditions for safe storage, including any incompatibilities

#### Recommendation for storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

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Store locked up.

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## 8. Exposure controls/personal protection

### Control parameters

No control value data available

### Adopted value

(Ethyl alcohol)

No Adopted value data available

ACGIH(2008) STEL: 1000ppm (URT irr)

### OSHA-PEL

(Ethyl alcohol)

TWA 1000ppm, 1900mg/m<sup>3</sup>

### Exposure controls

#### Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

##### Respiratory protection

Wear respiratory protection.

##### Hand protection

Wear protective gloves.

Consult with your glove and/or personnel equipment manufacturer for selection of appropriate compatible materials.

##### Eye protection

Wear eye/face protection.

##### Safety and Health measures

Wash ... thoroughly after handling.

Do not eat, drink or smoke when using this product.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

#### Physical properties

Appearance: Liquid

Color: Orange

Odor data N.A.

pH data N.A.

#### Phase change temperature

Initial Boiling Point/Boiling point data N.A.

Melting point/Freezing point data N.A.

Decomposition temperature data N.A.

Flash point data N.A.

Auto-ignition temperature data N.A.

Explosive properties data N.A.

Vapor pressure data N.A.

Vapor density data N.A.

Specific gravity/Density data N.A.

#### Solubility

Solubility in water: Miscible

n-Octanol /water partition coefficient data N.A.

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## 10. Stability and Reactivity

### Chemical stability

Stable under normal storage/handling conditions.

### Conditions to avoid

Contact with incompatible materials.

Open flames. Heat.

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Carbon oxides, Sulfur oxides, ?Bromine compounds

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## 11. Toxicological Information

### Information on toxicological effects

No Acute toxicity data available

### Irritant properties

Serious eye damage /irritation

[GHS Cat. Japan, base data]

(Ethyl alcohol)

rabbit : corneal opacity, iritis, conjunctival redness and chemosis were recovered within 7days.

(ECETOC TR No.48(2), 1998 et al.)

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

### Carcinogenicity

[GHS Cat. Japan, base data]

(Ethyl alcohol)

cat1A; ACGIH 7th, 2012; IARC, 2010

IARC-Gr.1 : Carcinogenic to humans

ACGIH-A3(2008) : Confirmed Animal Carcinogen with Unknown Relevance to Humans

### Reproductive toxicity

[GHS Cat. Japan, base data]

(Ethyl alcohol) cat.1A; human : PATTY 6th, 2012

No Teratogenic effects data available

Delayed and immediate effects and also chronic effects from short- and long-term exposure

### STOT

STOT-single exposure

[cat.3(resp. irrit.)]

[Japan published data]

(Ethyl alcohol) Respiratory tract irritation ( PATTY 6th, 2012 )

[cat.3(drow./dizz.)]

[Japan published data]

(Ethyl alcohol) Narcosis ( PATTY 6th, 2012; SIDS, 2005 )

STOT-repeated exposure

[cat.1]

[Japan published data]

(Ethyl alcohol) liver ( DFGOT vol.12, 1999 )

[cat.2]

[Japan published data]

(Ethyl alcohol) CNS ( HSDB, Access on June 2013 )

No Aspiration hazard data available

### Additional data

There are no data available on the preparation itself.

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

##### Aquatic acute toxicity component(s) data

[GHS Cat. Japan, base data]

(Ethyl alcohol) Algae(Chlorella) EC50=1000 mg/L/96hr (SIDS, 2005)

##### Aquatic chronic toxicity component(s) data

[GHS Cat. Japan, base data]

(Ethyl alcohol) Crustacea(Ceriodaphnia reticulata)NOEC=9.6 mg/L/10 days (SIDS, 2005)

#### Water solubility

(Ethyl alcohol)

miscible (ICSC, 2000)

#### Persistence and degradability

(Ethyl alcohol)

Degrade rapidly [BOD\_Degradation : 89% (Registered chemicals data check & review, Japan, 1993)]

#### Bioaccumulative potential

(Ethyl alcohol) log Pow=-0.32 (ICSC, 2000)

#### Additional information

There are no data available on the preparation itself.

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## 13. Disposal considerations

### Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

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## 14. Transport Information

### UN No, UN CLASS

Not applicable to UN NO.

Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid ; Cat. Z···Ethyl alcohol

Non Noxious Liquid ; Cat. OS···Water

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## 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

### US major regulations

#### TSCA

Ethyl alcohol; Bromocresol purple; Water

### Other regulatory information

We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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## 16. Other information

### GHS classification and labelling

Eye Irrit. 2: H319 Causes serious eye irritation

Carc. 1A: H350 May cause cancer

Bromocresol purple ethanol(20) solution (0.5g/L),  
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Repr. 1A: H360 May damage fertility or the unborn child

STOT RE 1: H372 Causes damage to organs (liver) through prolonged or repeated exposure

STOT RE 2: H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure

#### Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2017 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

Chemical Risk Information Platform (CHRIP)(NITE) <http://www.safe.nite.go.jp/japan/db.html>

GHS Classification Guidance for Enterprises 2013 Revised Edition (August, 2013,METI)

#### General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2015).