



Safety Data Sheet

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

1.1 Product identifier:

Product name: 1M DMSO

Product code(SDS NO): RT072-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research use only

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Cosmo Bio Co., Ltd.

Address: TOYO EKIMAE BLDG. 2-20 TOYO 2-CHOME, KOTO-KU, TOKYO 135-0016, JAPAN

Division: International Sales Dept.

Telephone number: +81-3-5632-9617

FAX: +81-3-5632-9618

e-mail address: export@cosmobio.co.jp

2. Hazards identification

2.1 Classification of the substance or mixture

3. Composition/information on ingredients

Substance/Mixture:

3.2 Mixture

Ingredient name	Content(%)	CAS No.	ECNO
Dimethyl sulfoxide	7.8	67-68-5	200-664-3

4. First-aid measures

4.1 Descriptions of first-aid measures

IF ON SKIN(or hair)

Rinse skin with water/shower.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED

Rinse mouth with water. Give the person one or two glasses of water, try to get the victim to vomit by having the victim touch the back of their with a finger.

Immediately call a POISON CENTER or doctor/physician.

Protective measures for first aid

Protect yourself by wearing rubber gloves and air-tight safety goggles.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

6. Accidental release measures

6.1 Personnel precautions, protective equipment and emergency procedures

Wear proper protective equipment.

Stop leak if safe to do so.

6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

6.3 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

Absorb spillage to prevent material-damage.

Stop leak if safe to do so.

7. Handling and storage

7.1 Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume/gas/mist/vapors/spray.

Exhaust/ventilator

Exhaust/ventilator should be available.

Safety treatments

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures/Incompatibility

Obtain special instructions before use.

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

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

Wash hands et al thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Recommendation for storage

Keep container tightly closed.

Keep cool. Protect from sunlight.

Store in accordance with local/national regulation.

Incompatible storage condition

Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Recommendation on container and packaging materials

Keep only in original container.

8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

No ACGIH values available

8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Washing facilities should be available.

Individual protection measures

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

Wear protective clothing.

Safety and Health measures

Do not get in eyes, on skin, or on clothing.

Wash ... thoroughly after handling.

Take off immediately all contaminated clothing and wash it before reuse.

Wash hands thoroughly after handling.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical properties

Appearance: Liquid

Color: Colorless

Odor: None

pH: 6.0 – 8.0

Phase change temperature

Initial Boiling Point/Boiling point: 189°C

Melting point/Freezing point: 18.5

Flash point: 95°C

Auto-ignition temperature: 215°C

Explosive properties: Flammability or explosive limit

lower limit: 2.6vol %

upper limit: 42vol %

Vapor pressure: 81.19Pa(25)

Vapor density: 2.7

Specific gravity/Density: 1.1g/cm³

Solubility

Solubility in water: Soluble

n-Octanol /water partition coefficient: log Pow-1.35

10. Stability and Reactivity

11. Toxicological Information

11.1 Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

12. Ecological Information

12.1 Toxicity

No Aquatic toxicity data available

Water solubility

(Dimethyl sulfoxide)

miscible (ICSC, 2000)

No Persistence and degradability data available

12.3 Bioaccumulative potential

(Dimethyl sulfoxide)

log Pow = -1.35 (calculated) (ICSC, 2000)

No Mobility in soil data available

Ozone depleting chemical data not available

13. Disposal considerations

13.1 Waste treatment methods

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

Dispose to an authorized waste collection point.

14. Transport Information

UN No, UN CLASS

Not applicable to UN NO.

15. Regulatory Information

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

US major regulations

TSCA

Dimethyl sulfoxide

16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN Classification, labelling and packaging of substances and mixtures (table 3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2015 TLVs and BEIs. (ACGIH)

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

Supplier's data/information

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 is advised to make their own tests to determine the safety and suitability of each such product or combination for their own purposes.



COSMO BIO Co., LTD.

TOYO EKIMAE BLDG. 2-20, TOYO 2-CHOME,
KOTO-KU. TOKYO 135-0016, JAPAN
TEL : (81)3-5632-9617
FAX : (81)3-5632-9618
e-mail : export@cosmobio.co.jp
URL : www.cosmobio.com



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