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SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier :

Substance name : DBM1

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

Recommended restrictions on use : For professional users only.

Recommended use: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier : ROJETechnologies

Street address / P.O. Box : ROJE street, 69th alley, Foroudgah blvd, Sanaat square, 8917357485,
Yazd, Iran

Country ID / Postcode / Place : Iran

Telephone number : +98 35 3723 7122

TeleFax : +98 35 3723 7122

E-Mail : safety@rojetechnologies.co

National contact: ROJETechnologies

1.4 Emergency Telephone Number

Opening Hours: 8-15:00 Sa to Wed and 8-13:00 Thurs

Language Of The Phone Service: English/ Persian

Only Available During Office Hours.

SECTION 2: Hazards Identification

Appearance: clear,colorless liquid.

Flash Point: 87.8 deg C.

Warning! DMSO readily penetrates skin and may carry other dissolved chemicals into the body. May cause eye, skin, and respiratory tract irritation. Combustible liquid and vapor. Hygroscopic (absorbs moisture from the air).

Target Organs: Central nervous system, eyes, skin.

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GHS INFORMATION

Classification: Flammable Liquids, Category 4

LABEL ELEMENTS

Hazard Pictogram(s): None.

Signal Word: Warning

Hazard Statements: Combustible liquid.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves, protective clothing and eye protection.

Response: In case of fire: Use dry chemical, CO2, water spray or regular foam to extinguish.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: None.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Hazardous components

Remarks Dimethyl sulfoxide

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance.

If inhaled: Move to fresh air. If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

In case of eye contact: Remove contact lenses. Protect unharmed eye.

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Rinse thoroughly with plenty of water for at least 15 Minutes and consult a physician.

If swallowed:

If accidentally swallowed obtain immediate medical attention.

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed Symptoms :

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture Specific hazards during Firefighting:

Exposure to decomposition products may be a hazard to health

Hazardous combustion products:

Carbon oxides

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment

for firefighters:

Wear self-contained breathing apparatus for Firefighting if necessary.

Further information:

In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Use personal protective equipment.

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

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6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

Keep away from food and drink.

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including

any incompatibilities Advice on common storage:

Do not store near acids.

Other data:

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s):

Laboratory chemical

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection:

Safety glasses

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Hand protection

Remarks:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	No data available
Odour:	characteristic
Odour Threshold:	No data available
pH:	8.7
Melting point/range:	No data available
Boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Burning rate:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Relative density:	No data available
Density:	No data available
Solubility(ies) Water solubility:	No data available
Solubility in other solvents:	No data available
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not determined

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Decomposition temperature:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions:

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid

Conditions to avoid:

No data available

10.5 Incompatible materials

Materials to avoid:

No data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

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Acute oral toxicity:

No data available

Acute inhalation toxicity:

No data available

Acute dermal toxicity:

No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks:

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks:

Respiratory or skin sensitization

Skin sensitization:

Not classified based on available information.

May irritate eyes.

Respiratory sensitisation:

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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Further information

No data available

SECTION 12: Ecological information

Ecotoxicity

Product:

Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

Persistence and degradability: No data available

Bioaccumulative potential

Product:

Bioaccumulation: No data available

Mobility in soil: No data available

Other adverse effects

Product:

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part 82
 Protection of Stratospheric Ozone-CAA Section 602
 Class I Substances
 Remarks: This product neither contains, nor was
 manufactured with a Class I or Class II ODS as defined
 by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt.
 A, App.A + B).

Additional ecological information: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging: Empty containers should be taken to an approved waste
 handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

UNRTDG

Not regulated as a dangerous good

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IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA-Emergency Planning and Community Right-to-Know

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards:

No SARA Hazards

SARA 302:

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

SARA 313:

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.

US State Regulations

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SA R-(Quantitative) Structure Activity Relationship; ASTM-American Society for the Testing of Materials; bw -Body weight; DIN-Standard of the German Institute for Standardisation; ECx-Concentration associated with x% response;ELx-Loading rate associated with x% response;EmS-Emergency Schedule; ErCx-Concentration associated with x% growth rate response;GHS-Globally Harmonized System; IARC-International Agency for Research on Cancer; IATA-International Air Transport Association; IBC-International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 Half maximal inhibitory concentration; ICAO-International Civil Aviation Organization; IMDG-International Maritime Dangerous Goods; IMO-International Maritime Organization; ISO-International Organization for Standardization; LC50-Lethal Concentration to 50 % of a test population; LD50-Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL-International Convention for the Prevention of Pollution from Ships; n.o.s.-Not Otherwise Specified; NO(A)EC-No Observed (Adverse) Effect Concentration; NO(A)EL-No Observed (Adverse) Effect Level; NOELR-No Observable Effect Loading Rate; OECD-Organization for Economic Co-operation and Development; OPPTS-Office of Chemical Safety and Pollution Prevention; PBTP-Persistent, Bioaccumulative and Toxic substance; REACH-Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT-Self-Accelerating Decomposition Temperature; SDS-Safety Data Sheet; UN-United Nations; vPvB-Very Persistent and Very Bioaccumulative; DSL-Domestic Substances List (Canada); KECI-Korea Existing Chemicals Inventory; TSCA-Toxic Substances Control Act (United States); AICS-Australian Inventory of Chemical Substances; IECS C-Inventory of Existing Chemical Substances in China; ENCS-Existing and New Chemical Substances (Japan); ISHL-Industrial Safety and Health Law (Japan); PICCS-Philippines Inventory of Chemicals and Chemical Substances; NZIoC-New Zealand Inventory of Chemicals; TCSI-Taiwan Chemical Substance Inventory; CERCLA-Comprehensive Environmental Response, Compensation, and Liability Act; DOT-Department of Transportation; EHS-Extremely Hazardous Substance; HMIS-Hazardous Materials Identification System; MSHA-Mine Safety and Health Administration; NFPA-National Fire Protection Association; RCRA-Resource Conservation and Recovery Act; RQ-Reportable Quantity; SARA-Superfund Amendments and Reauthorization Act; CMR-Carcinogen, Mutagen or Reproductive Toxicant; GLP-Good Laboratory Practice; ERG-Emergency Response Guide; NTP-National Toxicology Program; UNRTDG-United Nations Recommendations on the Transport of Dangerous Goods