Safety Data Sheet

SomaLogic Tag Reagent

SECTION 1: Identification

1.1 Product identifier

Product name	SomaLogic Tag Reagent (P/N 651-00008)

1.2 Supplier's details

Name	SomaLogic
Address	2945 Wilderness Place Boulder, CO 80301 USA
Email	techsupport@somalogic.com

1.3 Emergency phone number(s)

For Hazardous Materials [or Dangerous Goods], Incident Spill, Leak, Fire, Exposure, or Accident call CHEMTREC Day or Night

Within USA and Canada	1-800-424-9300 SomaLogic Account #: CCN792766
Outside USA and Canada	+1 703-527-3887 (collect calls accepted)

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

Flammable liquids (chapter 2.6), Cat. 4

2.2 GHS label elements, including precautionary statements

Signal word	Warning

Hazard statement(s)

H227	Combustible liquid

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P403+P235	Store in a well-ventilated place. Keep cool.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

1. DIMETHYL SULFOXIDE

Concentration	<= 95 % (Weight)
Other names / synonyms	A 10846; DELTAN; DEMASORB; DEMAVET; DEMESO; DEMSODROX; DERMASORB; DIMETHYL SULPHOXIDE; DIMETHYLSULFOXIDE; DIMEXIDE; DIPIRARTRIL-TROPICO; DMS-70; DMS-90; DMSO; DOLICUR; DOLIGUR; DOMOSO; DROMISOL; DURASORB; GAMASOL 90; HYADUR; INFILTRINA; M 176; Methane, 1,1'-sulfinylbis-; METHANE, SULFINYLBIS-; METHYL SULFOXIDE; METHYLSULFINYLMETHANE; NSC-763; RIMSO- 50; SOMIPRONT; SQ 9453; SULFINYLBIS(METHANE); SYNTEXAN; TOPSYM
CAS no.	67-68-5

2. NHS-PEO4-Biotin

Concentration	<= 5 % (Weight)

SECTION 4: First-aid measures

4.1 Description of necessary 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 the 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	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Get medical attention if symptoms occur.
If swallowed	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Personal protective equipment for first-aid responders	No data available.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

For small (incipient) fires, use media such as “alcohol” foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

5.2 Specific hazards arising from the chemical

Carbon oxides, Sulphur oxides.

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DIMETHYL SULFOXIDE (CAS: 67-68-5)

TWA (Inhalation): 250 ppm

AIHA Workplace Environmental Exposure Level "WEEL" guidance for airborne concentrations in the workplace (8-hr TWA).

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin 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.
Body protection	Impervious clothing, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Thermal hazards	No data available.
Environmental exposure controls	No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Liquid, clear
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	Melting point/range: 16 – 19 °C (61 – 66 °F)
Initial boiling point and boiling range	189 °C (372 °F)
Flash point	87 °C (189 °F) – closed cup
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	Lower explosion limit: 3.5 %(V)
Upper/lower explosive limits	Upper explosion limit: 42 %(V)
Vapor pressure	0.55 hPa (0.41 mmHg) at 20 °C (68 °F)
Vapor density	2.70 – (Air = 1.0)
Relative density	1.15 g/ml
Solubility(ies)	Miscible
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.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No data available.
Skin corrosion/irritation	No data available.
Serious eye damage/irritation	No data available.
Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	No data available.

Carcinogenicity	**Dimethyl Sulfoxide** Carcinogenicity – Rat – Oral Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Skin and Appendages: Other: Tumors. Carcinogenicity – Mouse – Oral Tumorigenic:Equivocal tumorigenic agent by RTECS criteria. Leukaemia Skin and Appendages: Other: Tumors. 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	**Dimethyl Sulfoxide** Reproductive toxicity – Rat – Intraperitoneal Effects on Fertility: Abortion. Reproductive toxicity – Rat – Intraperitoneal Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Reproductive toxicity – Rat – Subcutaneous Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Reproductive toxicity – Mouse – Oral Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system. Developmental Toxicity – Mouse – Intraperitoneal Effects on Embryo or Fetus
Summary of evaluation of the CMR properties	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Additional information	No data available.

SECTION 12: Ecological information

Toxicity	**Dimethyl Sulfoxide** Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 34,000 mg/l - 96 h LC50 - Oncorhynchus mykiss (rainbow trout) - 35,000 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 24,600 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 17,000 mg/l - 72 h (OECD Test Guideline 201)
Persistence and degradability	Dimethyl Sulfoxide Result: 31 % - According to the results of tests of biodegradability this product is not readily biodegradable. (OECD Test Guideline 301D)
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.
Other adverse effects	No data available.

SECTION 13: Disposal considerations

Disposal of the product	Dispose of in accordance with Federal, State, and local requirements.
Disposal of contaminated packaging	Dispose of in accordance with Federal, State, and local requirements.
Waste treatment	Dispose of in accordance with Federal, State, and local requirements.
Sewage disposal	Dispose of in accordance with Federal, State, and local requirements.
Other disposal recommendations	No data available.

SECTION 14: Transport information

DOT (US)	Not dangerous goods.
IMDG	Not dangerous goods.
IATA	Not dangerous goods.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific to the product in question

New Jersey Right To Know Components

Common name	DIMETHYL SULFOXIDE CAS
CAS number	67-68-5

HMIS Rating

Health	0
Flammability	2
Physical hazard	0
Personal protection	

NFPA Rating

Health hazard	0
Fire hazard	2
Reactivity hazard	0
Special hazard	

SECTION 16: Other information

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