

Tag-it Violet™ Proliferation and Cell Tracking Dye Date issued: September 23, 2013

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SAFETY DATA SHEET

1.	Identification	
1.1.	Product Name	Tag-it Violet™ Proliferation and Cell Tracking Dye
	Component	DMSO
	Catalog No.	2725505
1.2.	Recommended Use	Research use only
1.3.	Supplier Address Telephone, fax, email	SONY BIOTECHNOLOGY INC. 1730 North First Street, San Jose, CA 95112 U.S.A. Voice: +1 800-275-5963, FAX: +1 408-352-4130, SBTcustomerservice@sonybiotechnology.com
1.4.	e-mail address of person responsible for this SDS	SBTcustomerservice@sonybiotechnology.com
1.5.	Emergency telephone number	In case of a chemical emergency, spill, fire, or exposure US: +1 800-275-5963 (6:00AM – 5:30PM PT, M-F)
2.	Hazards Identification	
2.1.	GHS Hazard Classification	Flammable liquids (Category 4)
	OSHA Hazards	Combustible Liquid, Target Organ Effect
	Target Organs	Eyes, Skin
2.2.	GHS Label elements, including precau	tionary statements
	Pictogram	None
	Signal word	Warning
	Hazard statements H227	Combustible liquid
2.3.	Precautionary statement (Prevention)	
	P210	Keep away from flames and hot surfaces. –No smoking.
	P280	Wear protective gloves/eye protection/face protection.
	P370+P378	In case of fire: Use media such as alcohol-resistant foam, dry chemical, water, or carbon dioxide for extinction. 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.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P501	Dispose of contents/container in accordance with local regulations.
2.4.	Potential Health Effects	
	Inhalation	May be harmful if inhaled.
	Skin	May be harmful if absorbed through skin. May cause skin irritation.
	Eyes	May cause eye irritation.
	Ingestion	May be harmful if swallowed.

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Aggravated Medical Condition

Avoid contact with DMSO solutions containing toxic materials with Condition unknown toxicological properties. Dimethyl sulfoxide is readily absorbed through skin and may carry such materials into the body.

3. Composition/Information on Ingredients

3.1. Component	Dimethyl Sulfoxide (DMSO)
3.2. CAS	67-68-5
3.3. EINECS	200-664-3

>95% (v/v)

4. First Aid Measures

3.4. Concentration

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.
After inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact	Wash off with soap and plenty of water. Consult a physician.
After eye contact	Flush eyes with water as a precaution.
After swallowing	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
5. Fire-Fighting Measures	

Flammable in presence of a source of ignition when the temperature is above the flash point. Keep away from heat, sparks, open flames and hot surfaces. No smoking.

		For small (incipient) fires, use media such as alcohol foam, dry chemical, or carbon
51	Suitable extinguishing agents	dioxide. For fire fighters, for large fires, apply water from as far as possible. Use very
٥.١.	Suitable extiliguishing agents	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

material, its products of combustion or resulting gases	Containers can burst due to heat and pressure. Move container from fire area if it is safe to do so.

5.3. Special protective equipment and	Wear protective clothing and self-contained breathing apparatus. Use water to cool
precautions for fire-fighters	unopened containers.

5.4.	Hazardous combustion	products	Carbon oxides, Sultur of	xiaes

6. Accidental Release Measure	
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6.1. Person-related safety precautions	Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapors can accumulate in
	low areas.

6.2. Environment precautions	Prevent entry into waterways, drains, soil, and sewers. Prevent further leakage or
	spillage if safe to do so

6.3. Measures for cleaning/collecting	Contain spillage, and then collect with an electrically protected vacuum cleaner or by
o.s. Measures for cleaning/collecting	wet-brushing and place in container for disposal according to local regulations. Keep
	in suitable, closed containers for disposal.

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6.4. Additional information	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
7. Handling and Storage	
7.1. Information for safe handling	Avoid inhalation of vapor or mist. Keep away from sources of ignition (heat, sparks, open flames, hot surface). No smoking. Take measures to prevent the buildup of electrostatic charge.
7.2. Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls / Personal Protection

8.1. Exposure Limits

Dimethyl Sulfoxide Workplace Environmental Exposure Level	TWA 250 ppm
Evnosure Controls	

8.2. Exposure Controls

Engineering Controls	Use only with adequate (local exhaust) ventilation or inside a fume hood.

8.3. Personal protective equipment

Hand protection	Chemical resistant gloves.	
Eye protection	Laboratory safety goggles.	
Body protection	Protective work clothing.	

9. Physical and Chemical Properties

	Appearance Odor Odor threshold pH Melting point/freezing point Boiling point Flash point Evaporation rate Flammability Upper explosion limit Lower explosion limit Vapor pressure Vapor density Relative density Solubility Partition coefficient Auto-ignition temperature Decomposition temperature Viscosity Explosive Properties Oxidizing Properties	Liquid, Colorless Odorless Not available. No Data Available 18.45°C 189°C 87°C No Data Available No Data Available No Data Available No Data Available O.42 mmHg at 20°C 2.7 g/l at 20°C No Data Available Difficult to mix No Data Available 270°C No Data Available
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10. Stability and Reactivity

10.1. Reactivity	May be reactive with water.
10.2. Chemical stability	Stable when stored under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions No data available.

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12.3. Persistence and degradabilityl

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10.4. Conditions to avoid Avoid exposure to high temperatures (heat, flames, sparks) or direct sunlight. Store separately from alkalis, reducing agents, flammable, metals, powered met chlorates, cyanides, nitrates, halides, carbides, fulminates, hydrogen peroxide, or tible organic materials, acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, strong reducing agents, any strong oxidizing or reducing reagons agents, alides, carbon oxides. 11. Toxicological Information Routes of Entry Ingestion, inhalation, skin and eye contact. Oral LD50 14,500 mg/kg (rat) LC50 (rat) 4 hours 40,250 ppm LD50 dermal (rabbit) >5,000 mg/kg Skin Corrosion/Irritation May cause skin irritation. No rabbit skin irritation with 4 hours. Serious eye damage/irritation May cause irritation Respiratory or skin sensitization Harmful to mucous membranes and upper respiratory tract Germ cell mutagenicity No data available	
chlorates, cyanides, nitrates, halides, carbides, fulminates, hydrogen peroxide, cotible organic materials, acid chlorides, phosphorus halides, strong acids, strong oxidizing agents, strong reducing agents, any strong oxidizing or reducing reagon subject of the properties of the pr	
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Germ cell mutagenicity No data available	
Carcinogenicity No data available	
Reproductive toxicity No data available	
STOT-single exposure No data available	
STOT-repeated exposure No data available	
Aspiration hazard No data available	
11.2. Potential health effects	
Inhalation May be harmful if inhaled.	
Skin May be harmful if absorbed through skin. May cause skin irritation	
Eyes May cause eye irritation.	
Ingestion May be harmful if swallowed.	
Avoid contact with DMSO solutions containing toxic materials with Condition Aggravated Medical Condition unknown toxicological properties. Dimethyl sulfoxide is readily absorbed throug skin and may carry such materials into the body.	jh
12. Ecological Information	
12.1. Environmental Toxicity No data available	
12.2. Aquatic Toxicity DMSO LC50 toxicity to fish, (rainbow trout) Oncorhynchus mykiss: 35,000 mg/l –96.0 h	

No data available

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12.4.	Bioaccumulative potential	No data available
12.5.	Mobility in soil	No data available
12.4.	Results of PBT and vPvT assessment	No data available
13.	Disposal Considerations	
	Disposal methods	Minimize waste as much as possible. Provide any solution that cannot be recycled or used to a licensed disposal company. Alternatively, dissolve in or mix with a combustible solvent, and burn in a chemical incinerator equipped with an after burner and scrubber. Disposal must be made according to state and federal regulations.
14.	Transport Information	
	DOT (Domestic)	NA1993, Combustible liquid, n.o.s. Packing Group: III Proper shipping name: Combustible liquid, n.o.s. (Dimethyl sulfoxide) Marine pollutant: No Poison Inhalation Hazard: No
	IMDG	Not regulated
	IATA	Not regulated
	ADR	Not regulated
	ADN	Not regulated
	RID	Not regulated
15.	Regulatory Information	
	OSHA Hazards	Combustible Liquid, Target Organ Effect
	SARA 302 Components	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313 Components	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels establis hed by SARA Title III, Section 313.
	SARA 311/312 Hazards	Fire Hazard, Chronic Health Hazard
	Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components		nts
	Dimethyl sulfoxide CAS-No. Revision Date	67-68-5 2007-03-01
	New Jersey Right To Know Components	s
	Dimethyl sulfoxide CAS-No. Revision Date	67-68-5 2007-03-01
	California Prop. 65 Components	

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

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16. Other Information

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Only trained personnel should use this material.

This SDS was created in good faith based on our current knowledge at the time of creation and revision, but no warranty is made on the information, hazards, and toxicity data described. Prior to use, be sure to examine the latest information, rules, laws, and regulations of your country or region concerning hazards and harmful effects as well as regarding equipment to be used, and accord the highest priority to them.

The precautions described in this document assume normal handling of the product. When handling the product in an unconventional manner, be sure to take appropriate safety measures according the situation and take sufficient precautions.

All chemical products should be handled assuming the presence of "unknown hazards and harmful effects" and with the knowledge that such hazards will vary greatly depending on the usage environment, handling method, and conditions and period of storage. All handling of the product, including use, unpacking, storage, and disposal, should be performed only by specialists with professional knowledge and experience or under close supervision of such qualified specialists. It is the sole responsibility of the user to ensure and provide proper safe use conditions.

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