

Monensin Solution (1,000X)
Date issued: September 10, 2013

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SAFETY DATA SHEET

1.	Identification	
1.1.	Product Name	Monensin Solution (1,000X)
	Catalog No.	2703505
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.	Hazard Classification	
	Flammable Liquid	Category 2
	Skin Irritation	Category 2
	Eye Irritation	Category 2B
2.2.	GHS Label elements, including precaut	tionary statements

Pictogram





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Signal word	Danger
Hazard statement	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H320	Causes eye irritation.
Precautionary statement (Prevention)	
P210	Keep away from heat/sparks/open flames/hot surfaces –No smoking.
P223	Keep container tightly closed.
P241	Use explosion-proof equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measure against static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling.

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	Precautionary Statements (Response)	
	P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P370+P378	In case of fire: Use extinguishing powder, dry chemical, alcohol resistant foam, and carbon dioxide.
	P332+P313	If skin/eye irritation occurs: Get medical advice/attention.
	P337+P313	If eye irritation persist: Get medical advice/attention.
	P362	Take off contaminated clothing and wash before reuse.
	Precautionary Statements (Storage)	
	P403+P235	Store in a well-ventilated place. Keep cool.
	Precautionary Statements (Disposal)	
	P501	Dispose of contents/container to hazardous or special waste collection point.
3.	Composition/Information on Ing	gredients
3.1.	Component	Ethanol
	CAS	64-17-5
	EINECS	200-578-6
	Concentration	70%
3.2	Component	Monensin Sodium Salt
	CAS	22373-78-0
	EINECS	244-941-7
	EINECS Concentration	244-941-7 2 mM in Ethanol
4.		
	Concentration	2 mM in Ethanol
	Concentration First Aid Measures	2 mM in Ethanol
	Concentration First Aid Measures Description of necessary first aid measures	2 mM in Ethanol Sures Consult a physician. Show this safety data sheet to the doctor in attendance. Move
	Concentration First Aid Measures Description of necessary first aid measures General Advice	2 mM in Ethanol Sures Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If breathed in, move person into fresh air. If not breathing, give artificial respiration.
	Concentration First Aid Measures Description of necessary first aid measures General Advice After inhalation	2 mM in Ethanol Sures Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	Concentration First Aid Measures Description of necessary first aid measures General Advice After inhalation After skin contact	2 mM in Ethanol Sures Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Wash off with soap and plenty of water. Consult a physician.
	Concentration First Aid Measures Description of necessary first aid measures General Advice After inhalation After skin contact After eye contact	2 mM in Ethanol Sures Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Wash off with soap and plenty of water. Consult a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physcian. Do NOT induce vomiting. Never give anything by mouth to an unconscious
4.1.	Concentration First Aid Measures Description of necessary first aid measures General Advice After inhalation After skin contact After eye contact After swallowing	2 mM in Ethanol Sures Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Wash off with soap and plenty of water. Consult a physician. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physcian. Do NOT induce vomiting. Never give anything by mouth to an unconscious

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5.2.	Special hazards caused by the material, its products of combustion or resulting gases	Highly flammable.
5.3.	Special protective equipment and precautions for fire-fighters	Wear protective clothing and self-contained breathing apparatus for fire response.
5.4.	Hazardous combustion products	May form carbon oxides and sodium oxides.
6.	Accidental Release Measures	
6.1.	Personal precautions, protective equipment, and emergency procedures	Small spills can often be handled by personnel with chemical training. For large spills, contact emergency personnel immediately. Evacuate and ventilate area. Use protective clothing, gloves and proper respirator. Avoid formation of dust/vapor. Avoid inhalation or other contact. Keep unnecessary persons away.
6.2.	Environment precautions	Prevent entry into waterways, drains, soil, and sewers.
6.3.	Measures for cleaning/collecting	Absorb material with absorbent inert material, and dispose of in appropriate hazardous waste container. Clean contaminated surface. Do not use incompatible/combustible materials (i.e.: saw dust) for cleaning.
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	Do not get on skin, in eyes, on clothing. Do not breathe vapor. See section 8 for more information.
7.2.	Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well ventilated place away from any potential fire hazards. Store separately from isocyanates, ammonia, chlorinated compounds, inorganic acids, caustics, strong oxidizers, and combustible materials. Keep container tightly sealed. Carefully reseal any open containers. Do not use near ignition sources. Use only with electrically grounded equipment. Use in a well ventilated area and/or under a fume hood.
8.	Exposure Controls / Personal Pro	otection
8.1.	Exposure Limits	
	Ethanol	
	OSHA PEL	1000 ppm
	NIOSH	1000 ppm
	ACGIH	1000 ppm
8.2.	Exposure Controls	
	Engineering Controls	Use only with adequate (local exhaust) ventilation.
8.3.	Personal protective equipment	
	General protective and hygienic measures	Keep away from foodstuffs, beverages, and feed. Wash hands, face, and exposed forearms/areas after handling. Wash contaminated clothing before reusing. Ensure eyewash stations and safety showers are in close proximity to workstation.
	Breathing equipment	If used outside of a chemical fume hood, maintain exposure levels under the Occupational Exposure Level (OEL) or use proper respiratory protection.

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	Hand protection	Chemical resistant gloves.				
	Eye protection	Face shield (recommended) and 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 No Data Available				
	. Stability and Reactivity					
10.	1. Reactivity	No data available				
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.				
10.	4. Conditions to avoid	Avoid excessive heat.				
10.	5. Incompatible materials	Any strong oxidizing reagents, acids or bases. Avoid exposure to high temperatures or ignition sources.				
10.	6. Hazardous decomposition products	Carbon oxides/sodium oxides when burning.				
11.	Toxicological Information					
11.1	I. Information on toxicological effects					
	Acute Toxicity	Oral LD50 (Monensin) 29 mg/kg (rat) Oral LD50 (Ethanol) 7060 mg/kg (rat)				
	Skin Corrosion/Irritation	Irritant				
	Serious eye damage/irritation	Irritant				
	Respiratory or skin sensitization	Irritant				
	Germ cell mutagenicity	Suspected mutagenic effects.				
	Carcinogenicity	Suspected tumorigenic effects.				
	Reproductive toxicity	May have effects on the reproductive system.				

No data available

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STOT-repeated exposure	No data available
Aspiration hazard	No data available
11.2. Potential health effects	
Route of Exposure	Ingestion, inhalation, skin, and eye contact.
Symptoms	
Skin	May cause irritation.
Eyes	May cause irritation.
11.3 Additional information	See RTECS# JH2830000 and KQ6300000 for complete information.
12. Ecological Information	
12.1. Environmental Toxicity	No data available
12.2. Aquatic Toxicity	No data available
12.3. Persistence and degradabilityl	No data available
12.4. Bioaccumulative potential	No data available
12.5. Mobility in soil	Water soluble
12.4. Results of PBT and vPvT assessment	No data available
13. Disposal Considerations	
13.1. Disposal methods	Minimize waste as much as possible. Not a RCRA hazardous waste. Disposal must be made according to state and federal regulations.
13.2. Contaminated packaging (recommended)	Disposal must be made according to state and federal regulations.
13.3. Cleaning agent (recommended)	If product is spilled or leaked, collect on absorbent
14. Transport Information	
DOT (Domestic)	
Proper shipping name	Ethanol Solution
Hazard class	UN1170, Class 3, Packing group II
Marine pollutant	No
Poison inhalation hazard	No
IMDG	
Proper shipping name	Ethanol Solution
Hazard class	UN1170, Class 3, Packing group II
Marrier and House	No
Marine pollutant	110
Poison inhalation hazard	No
Poison inhalation hazard	

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	Marine pollutant	No
	Poison inhalation hazard	No
	ADR	
	Proper shipping name	Ethanol Solution
	Hazard class	UN1170, Class 3, Packing group II
	Marine pollutant	No
	ADN	
	Proper shipping name	Ethanol Solution
	Hazard class	UN1170, Class 3, Packing group II
	Marine pollutant	No
	RID	
	Proper shipping name	Ethanol Solution
	Hazard class	UN1170, Class 3, Packing group II
	Marine pollutant	No
15.	Regulatory Information	
15.1	. Safety, health and environmental regulations/legislation specific for the substance or mixture: Approved code of practice	Classification and Labeling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.
	SARA 302 Hazards	N/A
	SARA 313 Hazards	N/A
	SARA 311/312 Hazards	N/A
	Massachusetts Right To Know Components	Ethanol (CAS-No. 64-17-5).
	Pennsylvania Right To Know Components	Ethanol (CAS-No. 64-17-5) and monensin sodium salt (CAS-No. 22373-78-0).
	New Jersey Right To Know Components	Ethanol (CAS-No. 64-17-5) and monensin sodium salt (CAS-No. 22373-78-0).
	California Proposition 65	N/A
	EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.
	Code hazard designation of product	Flammable.
16.	Other Information	

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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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