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A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # BTNM-0050

Murashige and Skoog pretransplant medium for African Violets

Size: 1L





Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/18/2016 Rev n: 7.1

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SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Murashige and Skoog pretransplant medium for African Violets
Product code	: M061
.2. Recommended use and restrict	tions on use
No additional information available	
1.3. Supplier	
Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBiosciences.com	<u>cciences.com</u>
1.4. Emergency telephone number	
Emergency number	: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance	
GHS US classification	
Dxidizing solids Category 3 Serious eye damage/eye irritation Category	H272 May intensify fire; oxidizer 2 H319 Causes serious eye irritation
Full text of H statements : see section 16	
	precautionary statements
GHS US labeling	precautionary statements
2.2. GHS Label elements, including GHS US labeling Hazard pictograms (GHS US)	
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2.2. GHS Label elements, including GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Warning H272 - May intensify fire; oxidizer H319 - Causes serious eye irritation P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 - Keep/Store away from clothing and other combustible materials P221 - Take any precaution to avoid mixing with combustibles P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention. P370+P378 - In case of fire: Use media other than water to extinguish. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
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- 3.1. Substances
- Name

: Murashige and Skoog pretransplant medium for African Violets

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
ammonium nitrate, conc combustible substances <0,2%	ammonitrate / ammonium (I) nitrate / ammonium nitrate / ammonium nitrate, uncoated / ammonium nitrato engro 34.5-0-0 / ammonium saltpeter / ammonium(I) nitrate / ammonium(I)nitrate(1:1) / ammoniumnitrate, pure / ammoniumnitrate, solid / ammonsalpeter / AN-C prills / angro 34-0-0 / engro 34-0-0 / herco prills / nitram / nitrate of ammonia / nitrate of ammonium / nitric acid ammonium salt / nitric acid,ammonium salt / norway saltpeter / VARIFORM I	(CAS-No.) 6484-52-2	10 - 50	Ox. Sol. 3, H272 Eye Irrit. 2, H319
copper(II) sulfate, pentahydrate	blue copper / blue copperras / blue stone / blue viking / blue vitriol / chalcanthite / chalcanthite, natural / copper sulfate, pentahydrate / copper sulphate, pentahydrate / copper vitriol / copper(2+) sulfate, pentahydrate / couperose bleue / CSP (=copper(II)sulfate, pentahydrate) / cupric sulfate, pentahydrate / Environmentally hazardous substance, solid, n.o.s. / phyto-bordeaux (=copper(II)sulfate, pentahydrate) / phyton-27 (=copper(II)sulfate, pentahydrate) / roman vitriol (=copper(II)sulfate, pentahydrate) / sulfacop / sulfuric acid, copper(2+) salt (1:1), pentahydrate / sulfuric acid, copper(II)salt, pentahydrate / triangle(=copper(II)sulfate, pentahydrate / vencedor	(CAS-No.) 7758-99-8	< 0.05	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures			
Not applicable			
SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Wash skin with plenty of water.		
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.		
4.2. Most important symptoms and effect	ts (acute and delayed)		
Symptoms/effects after eye contact	: Eye irritation.		
4.3. Immediate medical attention and spe	ecial treatment, if necessary		
Treat symptomatically.			
SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishi	ing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam.		
5.2. Specific hazards arising from the che	emical		
Fire hazard	: May intensify fire; oxidizer.		
5.3. Special protective equipment and protecti	ecautions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

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SECTION 6: Accidental release measu	ires
6.1. Personal precautions, protective equi	pment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions Avoid release to the environment.	
6.3. Methods and material for containmen	t and cleaning up
Methods for cleaning up	Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	Store in a well-ventilated place. Keep cool.
-	
-	Combustible materials.
Incompatible materials	Combustible materials.
Incompatible materials SECTION 8: Exposure controls/persor	Combustible materials.
Incompatible materials SECTION 8: Exposure controls/persor 8.1. Control parameters	a Combustible materials.
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Incompatible materials SECTION 8: Exposure controls/perso 8.1. Control parameters Murashige and Skoog pretransplant medium in No additional information available ammonium nitrate, conc combustible substar No additional information available copper(II) sulfate, pentahydrate (7758-99-8) No additional information available 8.2. Appropriate engineering controls Environmental exposure controls	Combustible materials. nal protection for African Violets nces <0,2% (6484-52-2) Ensure good ventilation of the work station. Avoid release to the environment.
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SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	chemical properties		
Physical state	: Solid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: No data available		
Freezing point	: Not applicable		
Boiling point	: No data available		
Flash point	: Not applicable		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: Non flammable.		
Vapor pressure	: No data available		
Relative vapor density at 20 °C	: No data available		
Relative density	: Not applicable		
Solubility	: No data available		
Log Pow	: No data available		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosion limits	: Not applicable		
Explosive properties	: No data available		
Oxidizing properties	: No data available		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity	y second s		
10.1. Reactivity			
May cause or intensify fire; oxidizer.			
10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal conditions of use.			
10.4. Conditions to avoid			
Avoid contact with hot surfaces. Heat. No flame	es, no sparks. Eliminate all sources of ignition.		
10.5. Incompatible materials			
Combustible materials.			
10.6. Hazardous decomposition product	S		
Hazardous decomposition products.			

SECTION 11: Toxicological informatic	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
ammonium nitrate, conc combustible substat	nces <0,2% (6484-52-2)
LD50 oral rat	2950 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female,

Experimental value, Dermal)

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ammonium nitrate, conc combustible subst	ances <0,2% (6484-52-2)		
LC50 inhalation rat (mg/l)	> 88.8 mg/l (4 h, Rat, Inconclusive, insufficient data, Inhalation)		
ATE US (oral)	2950 mg/kg body weight		
copper(II) sulfate, pentahydrate (7758-99-8)			
LD50 oral rat	300 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 482 mg/kg bodyweight; Rat)		
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study; OECD 402: Acute Dermal Toxicity)		
ATE US (oral)	300 mg/kg body weight		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity – single exposure	: Not classified		
Specific target organ toxicity – repeated exposure	: Not classified		
Aspiration hazard	: Not classified		
Viscosity, kinematic	: No data available		
Symptoms/effects after eye contact	: Eye irritation.		
SECTION 12: Ecological information			
12.1. Toxicity			

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

ammonium nitrate, conc combustible substances <0,2% (6484-52-2)		
LC50 fish 1	95 - 102 mg/l (48 h, Cyprinus carpio, Semi-static system, Fresh water, Experimental value)	
EC50 Daphnia 1	490 mg/l (48 h, Daphnia magna, Fresh water, Read-across)	
copper(II) sulfate, pentahydrate (7758-99-8)		

12.2. Persistence and degradability

ammonium nitrate, conc combustible substances <0,2% (6484-52-2)		
Persistence and degradability Biodegradable in the soil. Biodegradable in water.		
copper(II) sulfate, pentahydrate (7758-99-8)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

12.3. Bioaccumulative potential

ammonium nitrate, conc combustible substances <0,2% (6484-52-2)		
Log Pow	-3.1	
Bioaccumulative potential	Not bioaccumulative.	
copper(II) sulfate, pentahydrate (7758-99-8)		
Bioaccumulative potential	Bioaccumable.	

12.4. Mobility in soil

ammonium nitrate, conc combustible substances <0,2% (6484-52-2)		
Surface tension	Data waiving	

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No (test)data on mobility of the substance available.		
copper(II) sulfate, pentahydrate (7758-99-8)		
Toxic to flora.		
12.5. Other adverse effects		

No additional information available

SECTION 13: Disposal consideration	ons	
13.1. Disposal methods		
Waste treatment methods	: Waste treatment methods.	
SECTION 14: Transport information	n	
Department of Transportation (DOT)		
In accordance with DOT		
Other information	: No supplementary information available.	
Transportation of Dangerous Goods		
Transport by sea		
Not applicable		
Air transport		
Not applicable		
SECTION 15: Regulatory information		
SECTION 15: Regulatory information	on	
15.1. US Federal regulations	on	
15.1. US Federal regulations	stances <0,2% (6484-52-2)	
15.1. US Federal regulations ammonium nitrate, conc combustible sub	stances <0,2% (6484-52-2) Substances Control Act) inventory	
15.1. US Federal regulations ammonium nitrate, conc combustible sub Not listed on the United States TSCA (Toxic states TSCA)	stances <0,2% (6484-52-2) Substances Control Act) inventory 3)	
15.1. US Federal regulations ammonium nitrate, conc combustible sub Not listed on the United States TSCA (Toxic states) copper(II) sulfate, pentahydrate (7758-99-8)	stances <0,2% (6484-52-2) Substances Control Act) inventory 3)	
15.1. US Federal regulations ammonium nitrate, conc combustible sub Not listed on the United States TSCA (Toxic 3) copper(II) sulfate, pentahydrate (7758-99-8) Not listed on the United States TSCA (Toxic 3) 15.2. International regulations	stances <0,2% (6484-52-2) Substances Control Act) inventory 3)	
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15.3. US State regulations

SECTION 16: Other information

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Revision date

: 05/11/2017

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Full	Full text of H-phrases:			
	H272	May intensify fire; oxidizer		
	H301	Toxic if swallowed		
	H315	Causes skin irritation		
	H319	Causes serious eye irritation		
	H400	Very toxic to aquatic life		
	H410	Very toxic to aquatic life with long lasting effects		

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.