

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 02/19/2015 Version: 1.0

Constant Section 1: Identification of the su     Product identifier     Product form     Trade name     CAS No     Product code	ubstance/l		anvlundartakir	
Product form Trade name CAS No			any/undertakir	19
rade name CAS No	: Substa	2222		
CAS No		.OSE, RESOLUTE GPG™		
	: 9012-3			
	: AB009			
.2. Relevant identified uses of the su Jse of the substance/mixture		ical substance for research	nst	
.3. Details of the supplier of the safet	ty data shee	t		
AmericanBio, Inc. 5 Erie Dr.				
latick, MA 01760 - USA				
800.443.0600 - F 508.655.2754				
nfo@americanbio.com - www.americanbio.co	<u>om</u>			
.4. Emergency telephone number				
mergency number	: 855.83	35.2572 (U.S.) :: 760.602.8703 (0	Dutside U.S.)	
SECTION 2: Hazards identification				
.1. Classification of the substance or				
	IIIAture			
Classification (GHS-US)				
lot classified				
2.2. Label elements				
GHS-US labeling				
lo labeling applicable				
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS-US) to data available				
SECTION 3: Composition/informat	ion on ing	gredients		
	ion on ing	gredients		
SECTION 3: Composition/informat		Product identifier	%	Classification (GHS-US)
SECTION 3: Composition/informat a.1. Substance Name AGAROSE, RESOLUTE GPG™	ion on ing		<b>%</b> 100	Classification (GHS-US) Not classified
ECTION 3: Composition/informat a.1. Substance Name AGAROSE, RESOLUTE GPG™ (Main constituent)	ion on ing	Product identifier		· · · · · · · · · · · · · · · · · · ·
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ECTION 3: Composition/informat .1. Substance Name AGAROSE, RESOLUTE GPG™ (Main constituent) Full text of H-phrases: see section 16 .2. Mixture		Product identifier		· · · · · · · · · · · · · · · · · · ·
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SECTION 3: Composition/informat         State         Name         AGAROSE, RESOLUTE GPG™         (Main constituent)         Sult text of H-phrases: see section 16         S.2.       Mixture         Jot applicable		Product identifier		· · · · · · · · · · · · · · · · · · ·
SECTION 3: Composition/informat         S.1.       Substance         Name         AGAROSE, RESOLUTE GPG™ (Main constituent)         Sull text of H-phrases: see section 16         S.2.       Mixture         Not applicable         SECTION 4: First aid measures		Product identifier		· · · · · · · · · · · · · · · · · · ·
SECTION 3: Composition/informat         S.1.       Substance         Name       AGAROSE, RESOLUTE GPG™         (Main constituent)       Generation (Main constituent)         Full text of H-phrases: see section 16       Section 16         S.2.       Mixture         Not applicable       SECTION 4: First aid measures         S.1.       Description of first aid measures		Product identifier (CAS No) 9012-36-6	100	Not classified
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SECTION 3: Composition/informat         S.1.       Substance         Name       AGAROSE, RESOLUTE GPG™         (Main constituent)       Generation (Main constituent)         Full text of H-phrases: see section 16       Section 16         S.2.       Mixture         Not applicable       SECTION 4: First aid measures         S.1.       Description of first aid measures	: Check arrest: labour	Product identifier (CAS No) 9012-36-6 the vital functions. Unconscious artificial respiration or oxygen. C ed breathing: half-seated. Victim	100 : maintain adequate Cardiac arrest: perfo in shock: on his ba	Not classified
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SECTION 3: Composition/informat         Substance         Name         AGAROSE, RESOLUTE GPG™         (Main constituent)         Full text of H-phrases: see section 16         2.       Mixture         Jot applicable         SECTION 4: First aid measures         1.       Description of first aid measures         First-aid measures general	: Check arrest: labour prever Keep v Depen uncon:	Product identifier (CAS No) 9012-36-6 the vital functions. Unconscious artificial respiration or oxygen. C ed breathing: half-seated. Victim the asphyxia/aspiration pneumonia watching the victim. Give psycho iding on the victim's condition: do scious person. If you feel unwell,	100 : maintain adequate Cardiac arrest: perfor in shock: on his ba a. Prevent cooling b logical aid. Keep th octor/hospital. Neve seek medical advid	Not classified e airway and respiration. Respiratory orm resuscitation. Victim conscious with tock with legs slightly raised. Vomiting: by covering the victim (no warming up). e victim calm, avoid physical strain. er give anything by mouth to an ce (show the label where possible).
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First-aid measures after eye contact :	Rinse with water. Take victim to an ophthalmologist if irritation persists. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.		
First-aid measures after ingestion :	Rinse mouth with water. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.		
	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
4.2. Most important symptoms and effects			
	Not expected to present a significant hazard under anticipated conditions of normal use. AFTER INHALATION OF DUST: Slight irritation.		
	Slight irritation.		
Symptoms/injuries after eye contact :	Slight irritation.		
	No effects known.		
	No effects known.		
4.3. Indication of any immediate medical at	ttention and special treatment needed		
No additional information available			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
	Water spray. Alcohol-resistant foam. ABC powder. Carbon dioxide. Foam. Dry powder. Carbon dioxide. Water spray. Sand.		
Unsuitable extinguishing media :	No unsuitable extinguishing media known. Do not use a heavy water stream.		
5.2. Special hazards arising from the subs	tance or mixture		
Fire hazard :	DIRECT FIRE HAZARD. Most organic solids may burn if strongly heated. INDIRECT FIRE HAZARD. Heating increases the fire hazard. Reactions involving a fire hazard: see "Reactivity Hazard".		
Explosion hazard :	DIRECT EXPLOSION HAZARD. Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".		
Reactivity :	On heating: release of combustible gases/vapours. On heating: release of toxic/corrosive/combustible gases/vapours (formaldehyde). Upon combustion CO and CO2 are formed (carbon monoxide - carbon dioxide). Decomposes slowly on exposure to air: peroxidation		
5.2 Advise for fireficktore	resulting in increased fire or explosion risk.		
5.3. Advice for firefighters	No enceific fire fighting instructions required. Use water enrou or fea fer scaling evaced		
Firefighting instructions :	No specific fire-fighting instructions required. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.		
Protection during firefighting :	Heat/fire exposure: compressed air/oxygen apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release measu	res		
6.1. Personal precautions, protective equip	oment and emergency procedures		
6.1.1. For non-emergency personnel			
· · · · · · · · · · · · · · · · · · ·	Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.		
	Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Evacuate		
	unnecessary personnel.		
Measures in case of dust release :	In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. In case of dust production: no naked flames or sparks. Dust production: stop engines and no smoking.		
6.1.2. For emergency responders			
Protective equipment :	Equip cleanup crew with proper protection.		
Emergency procedures :	Ventilate area.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.		
6.3. Methods and material for containment	and cleaning up		
	Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills. Heat exposure: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water.		

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Methods for cleaning up

: Stop dust cloud by humidifying with water. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: Before use: check for peroxides and eliminate them.	
Precautions for safe handling	: Comply with the legal requirements. Powdered form: no compressed air for pumping over. Avoid raising dust. Finely divided: spark- and explosionproof appliances. Keep away from naked flames/heat. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.	
7.2. Conditions for safe storage, includin	g any incompatibilities	
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.	
Incompatible products	: Strong bases. strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.	
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. water/moisture.	
Storage area	: Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Meet the legal requirements.	
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. hermetical. dry. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.	
Packaging materials	: SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available.	
7.3. Specific end use(s)		

No additional information available

SECTION 8: Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: nitrile rubber. GIVE LESS RESISTANCE: No data available. GIVE POOR RESISTANCE: No data available.
Hand protection	: Gloves. Wear protective gloves.
Eye protection	: In case of dust production: protective goggles. Chemical goggles or safety glasses.
Skin and body protection	: Protective clothing.

 Other information
 : When using, do not eat, drink or smoke.

 SECTION 9: Physical and chemical properties

 9.1.
 Information on basic physical and chemical properties

 Physical state
 : Solid

 Appearance
 : Solid. Powder.

 Color
 : White to light yellow.

 Odor
 : Odourless.

 Odor threshold
 : No data available

: Dust production: dust mask with filter type P1. Wear approved mask.

рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available

Freezing point

Respiratory protection

: No data available

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Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Poorly soluble in water. Water: < 1 g/100ml
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
9.2. Other information	
VOC content	: 0%
Other properties	: Hygroscopic.

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

On heating: release of combustible gases/vapours. On heating: release of toxic/corrosive/combustible gases/vapours (formaldehyde). Upon combustion CO and CO2 are formed (carbon monoxide - carbon dioxide). Decomposes slowly on exposure to air: peroxidation resulting in increased fire or explosion risk.

#### 10.2. Chemical stability

Unstable on exposure to air. Hygroscopic. Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Not classified
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
02/19/2015	I	EN (English US)

Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: AFTER INHALATION OF DUST: Slight irritation.
Symptoms/injuries after skin contact	: Slight irritation.
Symptoms/injuries after eye contact	: Slight irritation.
Symptoms/injuries after ingestion	: No effects known.
Chronic symptoms	: No effects known.
SECTION 12: Ecological information	1
12.1. Toxicity	
Ecology - air	: TA-Luft Klasse 5.2.1.
12.2. Persistence and degradability	
AGAROSE, RESOLUTE GPG™ (9012-36-6)	
Persistence and degradability	Biodegradability in water: no data available. No (test)data on mobility of the substance available. Not established.
12.3. Bioaccumulative potential	
AGAROSE, RESOLUTE GPG™ (9012-36-6)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other adverse enects	: Avoid release to the environment.
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
	: Remove waste in accordance with local and/or national regulations. Remove to an authorized incinerator with energy recovery. Dispose in a safe manner in accordance with local/national regulations.
Waste disposal recommendations	<ul> <li>incinerator with energy recovery. Dispose in a safe manner in accordance with local/national regulations.</li> <li>LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste</li> </ul>
Waste disposal recommendations	incinerator with energy recovery. Dispose in a safe manner in accordance with local/national regulations.
Waste disposal recommendations Additional information Ecology - waste materials	<ul> <li>incinerator with energy recovery. Dispose in a safe manner in accordance with local/national regulations.</li> <li>LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste according to Directive 2008/98/EC.</li> <li>Avoid release to the environment.</li> </ul>
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Waste disposal recommendations Additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regula Additional information Other information State during transport (ADR-RID)	<ul> <li>incinerator with energy recovery. Dispose in a safe manner in accordance with local/national regulations.</li> <li>LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste according to Directive 2008/98/EC.</li> <li>Avoid release to the environment.</li> </ul>
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Waste disposal recommendations Additional information Ecology - waste materials SECTION 14: Transport information In accordance with DOT No dangerous good in sense of transport regula Additional information Other information Other information State during transport (ADR-RID) ADR Transport document description Packing group (ADR) Hazard identification number (Kemler No.) Classification code (ADR)	<ul> <li>incinerator with energy recovery. Dispose in a safe manner in accordance with local/national regulations.</li> <li>LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste according to Directive 2008/98/EC.</li> <li>Avoid release to the environment.</li> </ul>
<ul> <li>13.1. Waste treatment methods</li> <li>Waste disposal recommendations</li> <li>Additional information</li> <li>Ecology - waste materials</li> <li>SECTION 14: Transport information</li> <li>In accordance with DOT</li> <li>No dangerous good in sense of transport regular</li> <li>Additional information</li> <li>Other information</li> <li>Other information</li> <li>State during transport (ADR-RID)</li> <li>ADR</li> <li>Transport document description</li> <li>Packing group (ADR)</li> <li>Hazard identification number (Kemler No.)</li> <li>Classification code (ADR)</li> <li>Transport by sea</li> <li>No additional information available</li> </ul>	<ul> <li>incinerator with energy recovery. Dispose in a safe manner in accordance with local/national regulations.</li> <li>LWCA (the Netherlands): KGA category 03. Can be considered as non hazardous waste according to Directive 2008/98/EC.</li> <li>Avoid release to the environment.</li> </ul>
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15.1. US Federal regulations

# AGAROSE, RESOLUTE GPG™ (9012-36-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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## **15.2. International regulations**

### CANADA

No additional information available

### **EU-Regulations**

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC Not classified

### 15.2.2. National regulations

No additional information available

## 15.3. US State regulations

No additional information available

SECTION 16: Other information	
Other information	: None.
NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual
	injury even if no treatment is given.
NFPA fire hazard	: 1 - Must be preheated before ignition can occur.
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

#### SDS US (GHS HazCom 2012)

AmericanBio, Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided in this Safety Data Sheet, which has been provided by a third party, is made in accordance with United States Global Harmonization System (GHS) initiative HAZCOM 2012 (Federal Register, Vol. 77, No. 58, Monday March 26, 2012/Rules and Regulations), and is intended only to describe the product for the purposes of health, safety and environmental requirements. It is expressly understood and agreed that AmericanBio, Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.