# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078449722

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078449706



# MATERIAL SAFETY DATA SHEET

# PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Alpha – 7/MB<sup>TM</sup> – 1 **Product No.:** Not applicable **MSDS ID#:** Not applicable

**GHS Product Identifier:** Not applicable

**Synonyms:** 

Molecular Formula: Mixture, not applicable

Molecular Weight: Not applicable CAS Number: Mixture, not applicable

Chemical Family: Vaccine

**Manufacturer:** 

Boehringer Ingelheim Vetmedica, Inc.

2621 North Belt Hwy St. Joseph, MO 64506-2002

Intended Use: Recommended for the vaccination of healthy, susceptible cattle, two months of age or older, as an aid in the reduction of diseases caused by Clostridial organisms, and for the prevention and control of pinkeye in healthy cattle caused by Moraxella Bovis.

**Emergency Telephone:** 

Transportation Emergency: (800) 424-9300

Medical Emergency (24HR): (866) 638-2226

Non-emergency Telephone: (800) 821-7467

# 2 HAZARDS IDENTIFICATION

### **Emergency Overview**

**Physical State:** Chemically inactivated organism cultures in liquid media packaged in 20 mL and 100 mL polyethylene containers.

Color: White Odor: Slight







**WARNING!** 

For use in animals only.

#### Not for human use.

Allergic reactions can occur.

# **Precautionary Statements:**

Accidental human injection can cause serious local reactions or anaphylactic reaction and systemic effects.

Keep only in original container.

Keep at a temperature between  $2-7^{\circ}$  C.

Do not freeze.

Fire-fighting: Use foam, carbon dioxide, dry powder and water fog or material appropriate for surrounding fire.

Avoid contact with eyes, skin and clothing.

Wash thoroughly with soap and water after handling.

Wear suitable gloves and eye/face protection.

Spills: Cover with absorbent or contain. Collect and incinerate.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If swallowed, seek medical advice immediately and show this container or label.

This material and its container must be disposed of in a safe way.

Keep out of reach of children.

Keep away from food, drink, and animal feedstuffs.

**Description:** Recommended for the vaccination of healthy, susceptible cattle, two months of age or older, as an aid in the reduction of diseases caused by Clostridial organisms, and for the prevention and control of pinkeye in healthy cattle caused by Moraxella Bovis.

Shake well before using. Using aseptic technique, inoculate cattle, 2 months of age or older, subcutaneously with a 2 mL dose. Calves vaccinated under 3 months of age should be revaccinated at weaning or at 4-6 months of age. A 2 ml booster dose is recommended annually.

**Acute effect:** Rarely, severe allergic reactions may occur that require immediate veterinary care. Antidote: Epinephrine.

**Precautions/Contraindications:** Do not vaccinate within 60 days before slaughter. Use entire contents when first opened.

Overdosage: None known.

**ADVERSE REACTIONS TO PRODUCT:** Anaphylactoid reactions may occur but are rare.

#### **Potential Health Effects**

**Inhalation:** Not expected to be an inhalation hazard with prescribed use.

**Eye Contact:** Not expected to be a hazard to the eye with prescribed use. Exposure to liquid in eye may cause mild transient eye irritation.

**Skin Contact:** Not expected to be a hazard to the skin with prescribed use. Can cause hypersensitive reactions. May cause skin sensitization by contact.

**Ingestion:** Not expected to be an ingestion hazard with prescribed use. Ingestion may cause nausea and systemic effects.

**Injection:** Swelling at injection site may occur.

**Chronic Health Effects:** Possible hypersensitization (development of abnormal sensitivity).

Target Organ(s): Gastrointestinal System, Skin

Potential Physical Effects: Can cause skin sensitization.

**OSHA Regulatory Status:** Nonhazardous

**Environment:** No data available

# 3 COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	EC No.	CAS- No.	Concentration	Classification	Notes
Clostridial organisms -			proprietary		
deactivated					
Moraxella bovis -			proprietary		
deactivated					
Mineral oil	2323842	8012-95-1	45-50%		
Gentamicin			proprietary		
*Formaldehyde	2000018	50-00-0	≤ 0.74 g/L	23/24/25, 34, 40,	
				43	

The full texts for all R-Phrases are displayed in Section 16, if applicable.

### 4 FIRST AID MEASURES

General: Animals or persons developing anaphylactic (life-threatening) reactions, such as difficulty in breathing or unconsciousness, must receive immediate medical attention.

**Inhalation:** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

**Eye Contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation or rash occurs, seek medical advice. Wash contaminated clothing before reuse.

**Ingestion:** Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

**Injection:** In case of accidental injection, wash the site thoroughly. Contact a physician immediately.

<sup>\*</sup> Used to inactivate virus and subsequently removed from solution. Concentration represents maximum remaining amount by percent weight which is below USDA allowable limits.

**Note to Physician:** For animal injection only. Not for human use. Status of immunization should be reviewed. Emergency procedures should be symptomatic and supportive.

**Antidote:** Epinephrine is indicated for anaphylactoid reactions.

# 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder and water fog or material appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

Unusual Fire & Explosion Hazards: None known

Hazardous Combustion Products: Carbon monoxide, carbon dioxide

Flammability Class: 0

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# ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate personal protective equipment (See Section 8).

**Spill Cleanup Methods:** Small liquid spill: Use a non-combustible material like vermiculite, earth or sand to soak up the product and place into container for later disposal. Incinerate. For large liquid spill: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Incinerate.

**Environmental Precautions:** Prevent runoff from entering drains, sewers or streams. Dike for later disposal.

#### 7 HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Avoid accidental injection. Wash thoroughly with soap and water after handling. Use only with adequate ventilation.

**Storage:** Store at  $2^{\circ}$ - $7^{\circ}$  C ( $35^{\circ}$ - $45^{\circ}$  F). Do not freeze. Shake well before using. Use entire contents when first opened.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### For Industrial Exposures:

#### **Exposure Limits:**

Formaldehyde	ACGIH	8-HR TWA	0.3 ppm	Irritation, cancer
Formaldehyde	OSHA	Action	0.5 ppm	Cancer-suspect
		Level		agent

Formaldehyde	Austria	TWA	$0.5 \text{ mg/m}^3$	Justifiably
1 ormanderry de	Tustru	1 1111	0.5 mg/m	suspected of
				carcinogenic
				potential. Skin
				absorption.
				Sensitizer
Formaldehyde	Alberta	8-HR TWA	$0.92 \text{ mg/m}^3$	Irritation
Formaldehyde	British Columbia	8-HR TWA	0.3 ppm	Capable of
1 ormandeny de	British Columbia		о.5 ррш	causing
				respiratory,
				dermal or
				conjunctival
				sensitization.
Formaldehyde	Ontario	8-HR TWA	1.5 mg/m <sup>3</sup>	SCHSITIZATION.
Formaldehyde	Quebec	Ceiling	$3 \text{ mg/m}^3$	
i olimuluolij uo	Quisso	Exposure	og,	
		Value		
Formaldehyde	Belgium	15-minute	$0.38 \text{ mg/m}^3$	Irritant
1 ormardeny de	Beigiani	STEL	o.so mg/m	
Formaldehyde	Denmark	Ceiling	$0.4 \text{ mg/m}^3$	
Formaldehyde	Finland	8-HR Limit	$0.37 \text{ mg/m}^3$	
Formaldehyde	France	Short Term	1 ppm	
		Limit		
Formaldehyde	Germany	8-HR TWA	$0.37 \text{ mg/m}^3$	
Formaldehyde	Greece	8-HR TWA	$0.25 \text{ mg/m}^3$	
Formaldehyde	Iceland	8-HR TWA	$0.4 \text{ mg/ m}^3$	Allergenic
				substance
Formaldehyde	Ireland	8-HR TWA	$2.5 \text{ mg/m}^3$	
Formaldehyde	Italy	Ceiling	0.3 ppm	
		limit		
Formaldehyde	Netherlands	MAC TWA	$1.5 \text{ mg/m}^3$	
Formaldehyde	Norway	TLV	$0.6 \text{ mg/m}^3$	Allergenic
				substance
Formaldehyde	Portugal	Ceiling	0.3 ppm	Sensitizer,
·		Exposure		suspected
		limit		human
				carcinogen
Formaldehyde	Spain	15-minute	$0.37 \text{ mg/m}^3$	Sensitizer
		STEL		
Formaldehyde	Sweden	Level Limit	$0.6 \text{ mg/m}^3$	
		Value		
		(NGV)		
Formaldehyde	Switzerland	TWA	$0.37 \text{ mg/m}^3$	Sensitizing
				substance
Formaldehyde	United Kingdom	TWA	$2.5 \text{ mg/m}^3$	
Oil mist, (mineral)	ACGIH	8-HR TWA	$5.0 \text{ mg/m}^3$	Lung
Oil mist (mineral)	OSHA	PEL	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Alberta	8-HR TWA	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	British Columbia	8-HR TWA	$0.2 \text{ mg/m}^3$	
Oil mist (mineral)	Ontario	8-HR TWA	$5.0 \text{ mg/m}^3$	

Oil mist (mineral)	Quebec	8-HR TWA	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Belgium	8-HR TWA	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Denmark	8-HR TWA	$1.0 \text{ mg/ m}^3$	
Oil mist (mineral)	Finland	8-HR limit	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Greece	8-HR TWA	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Iceland	8-HR TWA	$1.0 \text{ mg/ m}^3$	
Oil mist (mineral)	Ireland	8-HR TWA	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Italy	8-HR TWA	$5.0 \text{ mg/ m}^3$	
Oil mist (mineral)	Netherlands	MAC TWA	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Norway	TLV	$1.0 \text{ mg/ m}^3$	
Oil mist (mineral)	Portugal	8-HR Limit	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Spain	8-HR Limit	$5.0 \text{ mg/m}^3$	
Oil mist (mineral)	Sweden	Level Limit	$1.0 \text{ mg/ m}^3$	
		Value		
		(NGV)		

**Engineering Controls:** Not generally required when handling vials or containers. Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Respiratory Protection:** Not generally required when handling vials or containers. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA standard 63 FR 1152, January 8, 1998. Respirator type: NIOSH approved organic vapor respirator.

Europe: Wear appropriate personal protective equipment according to the Council Directive 89/686/EEC (4) and the appropriate CEN standards.

**PERSONAL PROTECTIVE EQUIPMENT:** Not generally required when handling containers. If containers are compromised or exposure to the active ingredient or mixture is likely wear:

**Eye Protection:** Wear safety glasses with side shields (or goggles).

Hand Protection: Wear suitable gloves.

**Skin Protection:** Wear protective clothing appropriate for the risk of exposure.

Hygiene Measures: Eye bath, washing facilities, shower

### PHYSICAL AND CHEMICAL PROPERTIES

Color: White Odor: Slight

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Odor Threshold: No data available

Physical State: Liquid pH: No data available

Melting Point: No data available Freezing Point: No data available Boiling Point: No data available Flash Point: No data available

Flammability Limit – Upper (%): No data available Flammability Limit – Lower (%): No data available

Evaporation rate: No data available Vapor Pressure: No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility: No data available

Partition Coefficient (n-Octanol/water): No data available

**Autoignition Temperature:** Not applicable **Decomposition Temperature:** No data available

# 10 STABILITY AND REACTIVITY

Stability: Stable

**Conditions to Avoid:** Temperatures below 2° C (35° F)

**Incompatible Materials:** Strong oxidizing agents

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: Will not occur.

# 11 TOXICOLOGICAL INFORMATION

Alpha – 7/MB<sup>TM</sup> – 1 is considered nontoxic when used as prescribed.

# **Listed Carcinogens:**

Chemical Name	IARC	NTP	OSHA	ACGIH
Mineral Oil	1	Known		A2 –Suspected
		carcinogen		human carcinogen
Formaldehyde	1	Anticipated	Cancer-Suspect	A2 –Suspected
		carcinogen	Agent	human carcinogen

# 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

Persistence and degradability: No data available

Mobility in soil: No data available
Other adverse effects: No data available

Germany WGK: Not applicable

# 13 DISPOSAL CONSIDERATIONS

**General Information:** Dispose of in accordance with local, state, federal, national or international regulations.

**Disposal Methods:** Incinerate containers and unused contents. Do not empty into drains; dispose of this material and its container in a safe way. Do not contaminate water, food, or feed by disposal.

**RCRA Information:** Not applicable

# 14 TRANSPORT INFORMATION

**DOT**: Not regulated

**TDG**: Not regulated

ADR/RID: Not regulated

**IATA**: Not regulated

**IMDG**: Not regulated

## 15 REGULATORY INFORMATION

**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: Noncontrolled, exempt

# **Inventory Status**

This material is **not** listed on the following inventories: TSCA, DSL, AICS, EINECS, IECSC, ENCS, PICCS, KECI, and NZIoC. Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use. In the United States, this product is regulated by the USDA Animal and Plant Health Inspection Service (APHIS).

Canada CEPA Schedule 1 - Formaldehyde

# **US Regulations**

# **CERCLA Hazardous Substance List (40 CFR 302.4):**

Component	Reportable Quantity
Formaldehyde	100 lbs

## SARA Title III

Section 302Extremely Hazardous Substance (40 CFR 355, Appendix A):

Component	Reportable	Threshold
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	Quantity	Planning Quantity
Formaldehyde	100 lbs	500 lbs

### Section 311/312 (40 CFR 370):

Component	Lower Reportable
	Quantity
Formaldehyde	500 lbs

# Section 313 Toxic Release Inventory (40 CFR 372): None

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Component	Threshold Quantity
Formaldehyde	15000 lbs

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

Component	Reportable
	Quantity
Formaldehyde	100 lbs

# **State Regulations**

### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Formaldehyde (gas)

Massachusetts Right-To-Know List: Oil Mist (mineral), Formaldehyde Minnesota Hazardous Substances List: Oil Mist (mineral), Formaldehyde

New Jersey Right-To-Know List: Mineral Oil, Formaldehyde

Pennsylvania Right-To-Know List: Mineral Oil Mist, Formaldehyde Rhode Island Right-To-Know List: Mineral Oil, Formaldehyde

#### **European Regulations**

**Austria MAK List (Annex I):** Formaldehyde **Denmark (Annex 3.6, April 2005):** Formaldehyde

Germany (Dangerous Substances Ordinance 2004, Annex III): Formaldehyde

Norway (List of Dangerous Substance): None Sweden (Sensitizers- Annex 3): Formaldehyde Switzerland (Toxins List 1): Formaldehyde

### 16 OTHER INFORMATION

### **Hazard Ratings**

	Health Hazard	Fire Hazard	Reactivity Hazard
HMIS	1*	0	0

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
NFPA	1	0	0	N/A

\*- Chronic health effect; 0 – Minimal; 1 – Slight; 2 – Moderate; 3 – Serious; 4 – Severe

R23/24/25 – Harmful by inhalation, in contact with skin and if swallowed.

R34 – Causes burns.

R40 - Limited evidence of a carcinogenic effect.

R43 - May cause sensitization by skin contact.

S(1/2) - Keep locked up and out of reach of children.

S24 - Avoid contact with skin.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51 - Use only in well-ventilated areas.

#### ABBREVIATIONS:

BIV - Boehringer Ingelheim Vetmedica, Inc.

N/A - Not applicable

N/E - Not established

pph - parts per hour

#### **References:**

- 1. Ariel WebInsight Regulatory Database. Regulatory Summary for North America, Western Europe, and Global Inventories Database.
- 2. GHS Manual
- 3. Alpha 7/MB<sup>TM</sup> 1 Label

Prepared by: Boehringer Ingelheim Vetmedica, Inc.

**Issue Date:** 11/19/07

**Revision Information:** New

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# SAFETY DATA SHEET

#### 1. Identification

Product identifier Alpha-7/MB-1®

Other means of identification

**Product code** APHIS Code – 7425.01, Family Code - 153

**Recommended use** Recommended for the vaccination of healthy, susceptible cattle, two months of age or older, as an

aid in the reduction of diseases caused by Clostridial organisms, and for the prevention and

control of pinkeye in healthy cattle caused by Moraxella Bovis.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Boehringer Ingelheim Animal Health

Address 2621 North Belt Hwy

St. Joseph, MO 64506-2002

**Transportation emergency** For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or

Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

**Medical Emergency** 

(24HR):

(866)638-2226

Non-Emergency calls: (800) 821-7467

### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Carcinogenicity Category 1A

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** May cause cancer. May cause an allergic skin reaction.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Contaminated work clothing must not be allowed out of the workplace. Wear

protective gloves/protective clothing/eye protection/face protection.

Response If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Issue date: 19-July-2017

**Storage** Store away from incompatible materials. Keep at a temperature between 2 - 7°C Do not freeze.

Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

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classified (HNOC)

None known.

Supplemental information None.

### 3. Composition/information on ingredients

Revision date: -

**Mixtures** 

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Chemical name	CAS number	%	
Mineral Oil	8012-95-1	45 - 50	
Clostridial organisms - deactivated	N/A	Proprietary	
Formaldehyde*	50-00-0	≤ 0.74 g/L	
Gentamicin	Proprietary	Proprietary	
Moraxella bovis - deactivated	N/A	Proprietary	

### **Composition comments**

\* Used to inactivate bacterin and subsequently removed from solution. Concentration represents maximum remaining amount by percent weight which is below USDA allowable limits.

#### 4. First-aid measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders. Seek medical attention and take along these instructions.

Eve contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Most important Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

symptoms/effects, acute and

delayed

May cause an allergic skin reaction. Dermatitis. Rash. Ingestion of a large quantity may cause

vomiting, nausea, dizziness, drowsiness and other systemic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Not for human use. For use in cattle and swine only. Persons developing anaphylactic (life threatening) reactions, such as difficulty in breathing or unconsciousness, must receive immediate medical attention.

**General information** 

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Alpha-7/MB-1® SDS US 938875 Version #: 01 Revision date: -

Issue date: 19-July-2017

# 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store away from foodstuffs. Store in the dark at 2°C to 7°C (35°F to 45°F). Avoid freezing. Shake Well. Protect from direct sunlight. Store away from incompatible materials, see Section 10 of the SDS.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

Туре	Value		
STEL	2 ppm		
TWA	0.75 ppm	0.75 ppm	
<del>-</del>			
Туре	Value	Form	
PEL	5 mg/m3	Mist.	
nit Values			
Туре	Value	Form	
Ceiling	0.3 ppm		
TWA	5 mg/m3	Inhalable fraction.	
to Chemical Hazards			
Туре	Value	Form	
Ceiling	0.1 ppm		
TWA	0.016 ppm		
STEL	10 mg/m3	Mist.	
TWA	5 mg/m3	Mist.	
No biological exposure limits noted	for the ingredient(s).		
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. Lexposure limits have not been established, maintain airborne levels to an acceptable level.			
es, such as personal protective equipr	nent		
None required for consumer use. In laboratory, medical or industrial settings, safety glasses we side shields are recommended. The use of goggles or full face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for spe information.			
	t gloves. Suitable gloves can be	e recommended by the glov	
	STEL  TWA  ts for Air Contaminants (29 CFR 1910.  Type  PEL  nit Values  Type  Ceiling  TWA  to Chemical Hazards  Type  Ceiling  TWA  STEL  TWA  No biological exposure limits noted  Good general ventilation (typically 1 should be matched to conditions. If or other engineering controls to mai exposure limits have not been estates, such as personal protective equipm  None required for consumer use. In side shields are recommended. The depending on the industrial exposur information.	STEL 2 ppm  TWA 0.75 ppm  ts for Air Contaminants (29 CFR 1910.1000) Type Value  PEL 5 mg/m3  Type Value  Ceiling 0.3 ppm TWA 5 mg/m3  to Chemical Hazards Type Value  Ceiling 0.1 ppm  TWA 0.016 ppm  TWA 0.016 ppm  TWA 5 mg/m3  No biological exposure limits noted for the ingredient(s). Good general ventilation (typically 10 air changes per hour) should should be matched to conditions. If applicable, use process encloss or other engineering controls to maintain airborne levels below rece exposure limits have not been established, maintain airborne levels es, such as personal protective equipment  None required for consumer use. In laboratory, medical or industria side shields are recommended. The use of goggles or full face prot depending on the industrial exposure setting. Contact a health and information.  Wear appropriate chemical resistant gloves. Suitable gloves can be	

Alpha-7/MB-1® SDS US

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Wear

protective gloves.

Other

Respiratory protection None required for consumer use. Respirators may be required for certain laboratory and

manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134. Respirator type: Air-purifying respirator with an appropriate, air-purifying filter, cartridge or canister. Contact a health and safety professional or manufacturer for specific information.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Chemically inactivated organism cultures in liquid media packaged in 20 or 100 mL polyethylene

containers.

Color White.
Odor Slight.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing.

### 10. Stability and reactivity

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**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

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Conditions to avoid Contact with incompatible materials. Excessive heat. Keep from freezing.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

### 11. Toxicological information

### Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

May cause an allergic skin reaction. Dermatitis. Rash. Ingestion of a large quantity may cause

vomiting, nausea, dizziness, drowsiness and other systemic effects.

Information on toxicological effects

**Acute toxicity** May cause allergic respiratory and skin reactions.

Components Species Test Results

Formaldehyde\* (CAS 50-00-0)

Acute Inhalation

LC50 Mouse 0.414 mg/l, 4 Hours

Rat 0.48 mg/l, 4 Hours

Oral

LD50 Rat 100 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

Skin sensitization

FORMALDEHYDE (CAS 50-00-0) Dermal sensitization

May cause an allergic skin reaction.

Respiratory sensitization

**Respiratory sensitization** Not expected to result in respiratory sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity May cause cancer. Contains a component that is listed as an IARC 1 (Known Human

Carcinogen), a NTP Known Carcinogen and an ACGIH A2 (Suspected Human Carcinogen). In

vaccines, the chronic exposure potential is negligible.

IARC Monographs. Overall Evaluation of Carcinogenicity

Formaldehyde\* (CAS 50-00-0) 1 Carcinogenic to humans.

NTP Report on Carcinogens

Formaldehyde\* (CAS 50-00-0) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde\* (CAS 50-00-0) Cancer

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard**Not an aspiration hazard.

**Chronic effects** Possible hyper sensitization (development of abnormal sensitivity).

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### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

Formaldehyde\* (CAS 50-00-0)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia pulex) 4.3 - 7.8 mg/l, 48 hours

Fish LC50 Striped bass (Morone saxatilis) 10.302 - 16.743 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Formaldehyde\* (CAS 50-00-0) 0.35

**Mobility in soil** Expected to be slightly to moderately mobile in soil.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

Therefore, it can only be used for TSCA exempt purposes such as R&D or veterinary use. FEDERAL LAW RESTRICTS THIS DRUG TO USE BY OR ON ORDER OF LICENSED

VETERINARIANS.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Formaldehyde\* (CAS 50-00-0) Cancer

Skin sensitization

Respiratory sensitization

Eye irritation Skin irritation

respiratory tract irritation

Acute toxicity Flammability

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#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Formaldehyde\* (CAS 50-00-0)

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

**Chemical name CAS** number **Threshold Threshold** Reportable Threshold quantity planning quantity planning quantity, planning quantity, (pounds) (pounds) lower value upper value (pounds) (pounds)

Formaldehyde\* 50-00-0 100 500 Yes

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name **CAS** number % by wt. Formaldehyde\* 50-00-0 ≤ 0.74 g/L

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Formaldehyde\* (CAS 50-00-0)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Formaldehyde\* (CAS 50-00-0)

Safe Drinking Water Act

Not regulated.

(SDWA)

**US** state regulations WARNING: This product contains chemical(s) known to the State of California to cause cancer.

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Formaldehyde\* (CAS 50-00-0)

#### **US. Massachusetts RTK - Substance List**

Formaldehyde\* (CAS 50-00-0) Mineral Oil (CAS 8012-95-1)

#### US. New Jersey Worker and Community Right-to-Know Act

Formaldehyde\* (CAS 50-00-0) Mineral Oil (CAS 8012-95-1)

### US. Pennsylvania Worker and Community Right-to-Know Law

Formaldehyde\* (CAS 50-00-0) Mineral Oil (CAS 8012-95-1)

#### **US. Rhode Island RTK**

Formaldehyde\* (CAS 50-00-0) Mineral Oil (CAS 8012-95-1)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes

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938875 Version #: 01 Revision date: -Issue date: 19-July-2017 United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date 19-July-2017

Revision date - 01

**Further information** Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. HMIS® is a registered trade and service mark of the American Coatings Association (ACA).

HMIS® ratings Health: 2\*

Flammability: 0 Physical hazard: 0

**NFPA** ratings



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