# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078910677

N/A



## MATERIAL SAFETY DATA SHEET

## PRODUCT AND COMPANY IDENTIFICATION

Product Name: FLEXcombo<sup>®</sup>
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: Emergency Telephone:

Boehringer Ingelheim Vetmedica, Inc. <u>Transportation Emergency:</u> (800) 424-9300

2621 North Belt Hwy

St. Joseph, MO 64506-2002 <u>Medical Emergency (24HR)</u>: (866) 638-2226

**Intended Use:** Vaccine for use in animals. Non-Emergency Telephone: (800) 821-

7467

## 2 HAZARDS IDENTIFICATION

## **Emergency Overview**

**Physical State:** Liquid solution of inactivated bacterin. **Color:** Clear to yellow to slightly turbid rose to brown

Odor: No data available







## **WARNING!**

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° 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.

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

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. 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, Respiratory System, Immune System

Potential Physical Effects: May cause skin sensitization.

**OSHA Regulatory Status:** Non-hazardous

**Environment:** No data available

3

## COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS- No.	Concentration	Classification	Notes
Inactivated baculo-			proprietary		
expressed PCV2 ORf2					
Inactivated bacterin –			proprietary		
Mycoplasma					
hyopneumoniae					
Additives		proprietary	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.

**Note to Physician:** Not for human use.

**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

<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.

## 6 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:** Keep container closed. Store at 2° - 7° C (35° - 45° 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

Where lower governmentally imposed exposure limits exist, such limits should take precedence.

**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:** Clear to yellow to slightly turbid rose to brown

Odor: No data available

9

Odor Threshold: No data available

**Physical State:** Liquid solution of inactivated bacterin

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

FLEXcombo<sup>®</sup> is considered nontoxic.

**Listed Carcinogens:** None

## 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: Proprietary Additive: Class: 1: slightly water-endangering

## 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

**Container:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 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**

One or more components of this product are **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): None

## SARA Title III

Section 302Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370): None

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

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

## **State Regulations**

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

Formaldehyde (gas)

Massachusetts Right-To-Know List: Formaldehyde Minnesota Hazardous Substances List: None New Jersey Right-To-Know List: None

Pennsylvania Right-To-Know List: Formaldehyde Rhode Island Right-To-Know List: Formaldehyde

## **European Regulations**

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

Germany (Dangerous Substances Ordinance 2004, Annex III): None

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

<sup>\* -</sup> 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.

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. Ingelvac® CircoFLEX - MycoFLEX<sup>TM</sup> Label

**Prepared by:** Boehringer Ingelheim Vetmedica, Inc.

**Issue Date:** 09/24/2012

**Supercedes Date:** New MSDS

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# Boehringer Ingelheim

## SAFETY DATA SHEET

## 1. Identification

Product identifier FLEXcombo®

Other means of identification

Product code APHIS Code- 49K5.R1, Family Code - 295

**Recommended use** Veterinary Vaccine **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** Boehringer Ingelheim Vetmedica, Inc.

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 hazardsSensitization, skinCategory 1

Carcinogenicity Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

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

Precautionary statement

**Prevention** Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of the

workplace. Wear protective gloves. Do not handle until all safety precautions have been read and

understood. Obtain special instructions before use.

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

Wash contaminated clothing before reuse.

**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

classified (HNOC)

None known.

**Supplemental information** Contains formaldehyde. May produce an allergic reaction.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
*Formaldehyde	50-00-0	<= 0.74 g/L
Additives	Proprietary	Proprietary

FLEXcombo® SDS US

937986 Version #: 02 Revision date: 12-February-2018 Issue date: 22-May-2017

Inactivated bacterin - Mycoplasma hyopneumoniae	Proprietary
Inactivated baculo-expressed PCV2 ORf2	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.

Eye contact

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

Ingestion

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

Most important 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. Swelling at injection site may occur.

Indication of immediate medical attention and special treatment needed

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

**General information** 

Persons developing anaphylactic (life threatening) reactions, such a as difficulty in breathing or unconsciousness, must receive immediate medical attention. If anaphylactoid reactions occur, epinephrine may be used as an antidote.

#### 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. Combustion products may include: carbon monoxide and carbon dioxide.

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

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards 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. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. 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.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Shake well before using. Avoid accidental injection. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animal feedingstuffs. Store at 2°-7° C (35°-45° F). Do not freeze.

FLEXcombo® SDS US

937986 Version #: 02 Revision date: 12-February-2018 Issue date: 22-May-2017

## 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Components	Type	Value	
*Formaldehyde (CAS 50-00-0)	STEL	2 ppm	
,	TWA	0.75 ppm	
US. ACGIH Threshold Limit Val	lues		
Components	Туре	Value	
*Formaldehyde (CAS 50-00-0)	STEL	0.3 ppm	
•	TWA	0.1 ppm	
US. NIOSH: Pocket Guide to Ch	nemical Hazards		
Components	Туре	Value	
*Formaldehyde (CAS 50-00-0)	Ceiling	0.1 ppm	
,	TWA	0.016 ppm	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Not generally required when handling vials or containers. 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 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.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Not generally required when handling containers. If containers are compromised or exposure to

the mixture is likely: Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Not generally required when handling containers. If containers are compromised or exposure to

the mixture is likely: Wear suitable gloves.

Other Not generally required when handling containers. If containers are compromised or exposure to

the mixture is likely: Wear lab coat, apron or appropriate clothing to prevent skin contact.

**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 29 CFR 1910.134. Respirator type: NIOSH

approved organic vapor respirator.

**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.

#### 9. Physical and chemical properties

**Appearance** Liquid solution of inactivated bacterin.

Physical stateLiquid.FormLiquid.

**Color** Clear to yellow to slightly turbid rose to brown.

Odor Not available.
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.

FLEXcombo® SDS US

937986 Version #: 02 Revision date: 12-February-2018 Issue date: 22-May-2017

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Not available. Vapor pressure Not available. Vapor density

Relative density

Not available.

Solubility(ies)

Not available. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Viscosity

## 10. Stability and reactivity

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.

Conditions to avoid Temperatures below 2°C. Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause inhalation hypersensitivity (occupational asthma) in sensitive individuals.

Skin contact May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation. Ingestion Ingestion may cause irritation and stomach discomfort.

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. Swelling at injection site may

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction.

Components **Species Test Results** 

\*Formaldehyde (CAS 50-00-0)

Acute **Dermal** 

LD50 Rat 270 mg/kg

Inhalation

LC50 Rat 0.578 mg/l, 4 hours

Oral

LD50 Rat 100 mg/kg

Skin corrosion/irritation May cause an allergic skin reaction.

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

irritation

#### Respiratory or skin sensitization

## **ACGIH** sensitization

FORMALDEHYDE (CAS 50-00-0) Dermal sensitization Respiratory sensitization

FLEXcombo® SDS US

937986 Version #: 02 Revision date: 12-February-2018 Issue date: 22-May-2017 4/8

Exposure to formaldehyde may cause respiratory sensitization in some individuals or aggravate Respiratory sensitization

pre-existing asthmatic conditions.

May cause an allergic skin reaction. Skin sensitization

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

mutagenic or genotoxic.

Carcinogenicity 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 1910.1001-1053) \*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

No data available.

Specific target organ toxicity -

repeated exposure

No data available.

**Aspiration hazard** Not classified, however droplets of the product may be aspirated into the lungs through ingestion

or vomiting and may cause a serious chemical pneumonia.

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

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.

**Test Results** Components **Species** 

\*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 No data available for this product.

Partition coefficient n-octanol / water (log Kow)

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

Diluent and end-product expected to be slightly to moderately mobile in soil. Mobility in soil

Other adverse effects This product contains one or more substances identified as hazardous air pollutants (HAPs) per

the US Federal Clean Air Act (see section 15).

13. Disposal considerations

**Disposal instructions** This material and its container must be disposed of in a safe way. Burn container and all unused

contents. Do not discharge into drains, water courses or onto the ground. Do not contaminate

water, food, or feed by disposal.

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.

FLEXcombo® SDS US IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

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.

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

\*Formaldehyde (CAS 50-00-0)

Listed.

#### SARA 304 Emergency release notification

\*Formaldehyde (CAS 50-00-0) 100 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

\*Formaldehyde (CAS 50-00-0)

Skin sensitization Respiratory sensitization

Eye irritation Skin irritation

respiratory tract irritation

Acute toxicity Flammability

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
*Formaldehyde	50-00-0	100	500		

SARA 311/312 Hazardous

chemical

Yes

**Classified hazard** categories

Respiratory or skin sensitization

Carcinogenicity

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

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

\*Formaldehyde (CAS 50-00-0)

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

\*Formaldehyde (CAS 50-00-0)

SDS US **FLEXcombo®** 

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

\*Formaldehyde (CAS 50-00-0)

#### US. Rhode Island RTK

\*Formaldehyde (CAS 50-00-0)

#### **California Proposition 65**



WARNING: This product can expose you to \*Formaldehyde, which is known to the State of California to cause

cancer. For more information go to www.P65Warnings.ca.gov.

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

\*Formaldehyde (CAS 50-00-0) Listed: January 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

\*Formaldehyde (CAS 50-00-0)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
	(FICC3)	

Taiwan Chemical Substance Inventory (TCSI) Taiwan Yes United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

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

22-May-2017 Issue date **Revision date** 12-February-2018

Version # 02

Health: 2 **HMIS®** ratings

Flammability: 0 Physical hazard: 0

NFPA ratings



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

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