SAFETY DATA SHEETS

This SDS packet was issued with item: 078423013

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

078378014 078431715 078716864 078717120



SAFETY DATA SHEET

1. Identification

Product identifier	Express® FP 10
Other means of identification	
Product code	APHIS Code – 4469.23, 4469.24, Family Code - 279
Recommended use	For vaccination of healthy, susceptible cattle as an aid in the reduction of respiratory diseases caused by Infectious Bovine Rhinotracheitis (IBR) virus, Bovine Virus Diarrhea (BVD) Types 1 and 2, Parainfluenza3 (PI3) virus, Bovine Respiratory Syncytial Virus (BRSV), and leptospirosis caused by Leptospira canicola, L. grippotyphosa, L. hardjo, L. icterohaemorrhagiae, and L. pomona.
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 an allergic skin reaction. May cau	se cancer.
Precautionary statement		
Prevention	and understood. Avoid breathing mist or vapo	t handle until all safety precautions have been read or. Contaminated work clothing must not be allowed protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If skin ir Wash contaminated clothing before reuse.	ritation or rash occurs: Get medical advice/attention.
Storage	Store away from incompatible materials. Kee Store locked up.	p at a temperature between 2 - 7°C Do not freeze.
Disposal	Dispose of contents/container in accordance	with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

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quipment/instructions	pecial protective equipment nd precautions for firefighters			orn in case of fire.
	ire fighting quipment/instructions	Move containers from fire area if you can de	o so without risk.	
		Use standard firefighting procedures and co	onsider the hazards of other ir	volved materials.

Express® FP 10

939155 Version #: 01 Revision date: - Issue date: 03-August-2017

Obtained by Global Safety Management, 1-813-435-5161 - www.GSMSDS.com

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. 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.
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.

8. Exposure controls/personal protection

Occupational exposure limits

Туре	Value	
STEL	2 ppm	
TWA	0.75 ppm	
mit Values		
Туре	Value	
Ceiling	0.3 ppm	
e to Chemical Hazards		
Туре	Value	
Ceiling	0.1 ppm	
TWA	0.016 ppm	
No biological exposure limits noted f	or the ingredient(s).	
should be matched to conditions. If a or other engineering controls to main	applicable, use process enclosures, local exhaust vent ntain airborne levels below recommended exposure lin	ilatio nits. l
es, such as personal protective equipm	nent	
side shields are recommended. The	use of goggles or full face protection may be required	
Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.		
Wear appropriate chemical resistant protective gloves.	clothing. Use of an impervious apron is recommended	d. We
	STEL TWA mit Values Type Ceiling e to Chemical Hazards Type Ceiling TWA No biological exposure limits noted for Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ es, such as personal protective equipm None required for consumer use. In I side shields are recommended. The depending on the industrial exposure information. Wear appropriate chemical resistant supplier.	STEL 2 ppm TWA 0.75 ppm nit Values Type Value Ceiling Ceiling 0.3 ppm e to Chemical Hazards Type Type Value Ceiling 0.1 ppm TWA 0.016 ppm No biological exposure limits noted for the ingredient(s). Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rat should be matched to conditions. If applicable, use process enclosures, local exhaust vent or other engineering controls to maintain airborne levels below recommended exposure limits have not been established, maintain airborne levels to an acceptable level. es, such as personal protective equipment None required for consumer use. In laboratory, medical or industrial settings, safety glasse 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 sinformation. Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the gupplier.

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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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

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Appearance	
Physical state	Liquid.
Form	Lyophilized modified live virus is supplied in a glass vial and a solution of inactivated bacterin is supplied in a high density plastic bottle.
Color	White.
Odor	No data available.
Odor threshold	Not available.
рН	6.5 - 7.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
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	
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	Contact with incompatible materials. Excessive heat. Keep from freezing.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May 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 c	ause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may	cause temporary irritation.	
Respiratory or skin sensitization	n		
ACGIH sensitization			
FORMALDEHYDE (CAS	50-00-0)	Dermal sensitization Respiratory sensitization	
Respiratory sensitization	Not expected to result in respiratory sensitization.		
Skin sensitization	May cause an allergic skin reaction.		
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- NTP Report on Carcinogens	,	1 Carcinogenic to humans.	
Formaldehyde* (CAS 50- OSHA Specifically Regulate	-00-0) ed Substances (29 CFR 1910.1	Known To Be Human Carcinogen. 001-1050)	
Formaldehyde* (CAS 50-	-00-0)	Cancer	
Reproductive toxicity	This product is not expected t	o 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).	
12. Ecological information	ı		
Ecotoxicity		is environmentally hazardous. However, this does not exclude the nt 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 av	No data is available on the degradability of this product.				
Bioaccumulative potential						
Partition coefficient n-octar Formaldehyde* (CAS 50-00-0		Kow) 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 consideratio	ns					
Disposal instructions		eclaim or dispose in sealed containers a tainer in accordance with local/regional/r	t licensed waste disposal site. Dispose of national/international regulations.			
Local disposal regulations	Dispose in a	ccordance 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			ste handling site for recycling or disposal. follow label warnings even after container is			

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

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

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)

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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 Hazard categories	Immediate Delayed Ha Fire Hazaro Pressure H	Hazard - Yes azard - Yes d - No	SARA)		
SARA 302 Extremely ha	zardous substar	nce			
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 Hazardou chemical	is Yes				
SARA 313 (TRI reporting Chemical name	1)	C	AS number	% by wt.	
Formaldehyde*		5	60-00-0	< 0.2	
ther federal regulations					
Clean Air Act (CAA) Sec	tion 112 Hazard	ous Air Polluta	nts (HAPs) List		
Formaldehyde* (CAS Clean Air Act (CAA) Sec	tion 112(r) Accid	dental Release	Prevention (40 CFR 6	8.130)	
Formaldehyde* (CAS	,				
Safe Drinking Water Act (SDWA)	Not regulat	ed.			
state regulations	WARNING	This product co	ontains chemical(s) kno	wn to the State of Calif	ornia to cause cancer.
US - California Prop	osition 65 - Caro	cinogens & Rep	productive Toxicity (C	RT): Listed substance)
Formaldehyde* (US. Massachusetts		e List			
Formaldehyde* (
US. New Jersey Wor		unity Right-to-K	now Act		
Formaldehyde* (US. Pennsylvania W		nunity Right-to	-Know I aw		
Formaldehyde* (US. Rhode Island R	CAS 50-00-0)	numry Right-to			
Formaldehyde* (
ternational Inventories	· · · · · ·				
Country(s) or region	Inventory I	name			On inventory (yes/no)*
Australia	-		mical Substances (AIC	S)	No
Canada	Domestic S	Substances List (DSL)		No
Canada	Non-Dome:	stic Substances	List (NDSL)		No
China	Inventory o	f Existing Chemi	ical Substances in Chir	na (IECSC)	No
Europe	European I Substances		ting Commercial Chem	ical	No
Europe	European L	ist of Notified C	hemical Substances (E	LINCS)	No
Japan	Inventory o	f Existing and N	ew Chemical Substanc	es (ENCS)	No
Korea	Existing Ch	emicals List (EC	CL)		No
New Zealand	New Zeala	nd Inventory			No
Philippines	Philippine I (PICCS)	nventory of Che	micals and Chemical S	ubstances	No
- . ·	T ·				

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).

Taiwan Chemical Substance Inventory (TCSI)

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).

No

No

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

Taiwan

Revision date Version # Further information HMIS® ratings

NFPA ratings

Disclaimer

01 HMIS® is a registered trade and service mark of the American Coatings Association (ACA). Health: 2* Flammability: 0 Physical hazard: 0



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