

SAFETY DATA SHEET

IDEXX ProCyte Dx Reagent Kit 99-26306-00
IDEXX ProCyte Dx Stain Pack 98-71001-00
IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name(s)	IDEXX ProCyte Dx Reagent Kit	99-26306-00	
Product code(s)	IDEXX ProCyte Dx Stain Pack	98-71001-00	
	IDEXX ProCyte e-Check Controls	99-19020-00, 99-26305-00	
Identified uses	For veterinary use only.		
Company	IDEXX Laboratories, Inc. One IDEXX Drive Westbrook, ME 04092 United States	IDEXX Laboratories Pty Ltd. Metro Centre Unit 20, 38-46 South Street Rydalmere, NSW 2116 Australia	IDEXX Europe B.V. Scorpius 60 Building F Hoofddorp 2132 LR The Netherlands
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Australia +(61)-290372994
New Zealand +(64)-98010034
Singapore +(65)-31581349
South Africa 0-800-983-611
United Kingdom +(44)-870-8200418

2. HAZARDS IDENTIFICATION

GHS Classification

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance according to GHS.
<u>HGB Reagent</u>	Not a hazardous substance according to GHS.
<u>Lytic Reagent</u>	Not a hazardous substance according to GHS.
<u>Retic Diluent</u>	Not a hazardous substance according to GHS.

IDEXX e-Check Controls

e-Check Controls Not a hazardous substance according to GHS.

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Flammable Liquid, Category 4
Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H227 H302+H312+H332 H371	Combustible liquid Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs
Precautionary statement(s)	P210 P260 P264 P270	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

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P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification according to Regulation (EC) No 1272/2008

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>HGB Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Lytic Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Retic Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

IDEXX e-Check Controls

<u>e-Check Controls</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
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IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H302+H312+H332 H371	Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs.
Precautionary statement(s)	P260 P264 P270 P271 P280 P301+P312 P330 P302+P352 P304+P340 P362+P364 P405	Do not breath dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash before reuse. Store locked up.

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P501

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

Other hazards – e-Check Controls - Biohazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

IDEXX ProCyte DX Reagent Kit

System Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Boric acid	10043-35-3	233-139-2	005-007-00-2	ED4550000	0.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 99%

HGB Reagent, Lytic Reagent, Reticulocyte Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX e-Check Controls

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	3.0%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 96%

Reticulocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	7.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 92%

4. FIRST AID MEASURES

Description of first aid measures

IDEXX ProCyte DX Reagent Kit, e-Check Controls

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 IF SWALLOWED: Rinse mouth.

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IDEXX ProCyte Dx Stain Pack

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides.

Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Specific end use

For veterinary use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Boric acid	10043-35-3	TWA	2.0 mg/m3	Canada. British Columbia OEL
			6.0 mg/m3	
		TWA	2.0 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		STEL	6.0 mg/m3	
Methanol	67-56-1	STEL	250 ppm (328 mg/m3)	Australia. Workplace Exposure Standards for Airborne Contaminants.
		TWA	200 ppm (262 mg/m3)	
		TWA	200 ppm (262 mg/m3)	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm	Canada. British Columbia OEL
		STEL	250 ppm	
		TWAEV	200 ppm (262 mg/m3)	Canada. Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEV	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	Europe. Indicative occupational exposure limit values
		OELV-8hr	200 (260 mg/m3)	Ireland. List of Chemical Agents and Occupational Exposure Limit Values – Schedule 1
		WES-TWA	200 ppm (262 mg/m3)	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
		WES-STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	UK. EH40 WEL – Workplace Exposure Limits
		STEL	250 ppm (333 mg/m3)	
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
STEL	250 ppm			
TWA	200 ppm (260 mg/m3)	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological Specimen	Basis
Methanol	67-56-1	Methyl alcohol	15.0 mg/l	Urine	New Zealand. Biological Exposure Indices
			15.0 mg/l	Urine	USA. ACGIH – Biological Exposure Indices (BEI)

Derived No Effect Level (DNEL) – Methanol

Application Area	Exposure routes	Health effect	Value
Workers	Skin contact	Long-term systemic effects Acute systemic effects	40mg/kg BW/d
		Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects

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		Acute local effects	
Consumers	Ingestion	Long-term systemic effects	8 mg/kg BW/d
	Skin contact	Long-term systemic effects	8 mg/kg BW/d
		Acute systemic effects	
Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects Acute local effects	50 mg/m3	

Predicted No Effect Concentration (PNEC) – Methanol

Compartment	Value
Soil	23.5 mg/kg
Marine water	15.4 mg/l
Fresh water	154 mg/l
Fresh water sediment	570.4 mg/kg
Onsite sewage treatment plant	100 mg/kg

Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin, or on clothing.

Personal protective equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection.
Skin protection Handle with gloves.
Eye protection Safety glasses.
Body protection Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

	<u>System Diluent</u>	<u>HGB Reagent</u>	<u>Lytic Reagent</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	light yellow	colorless
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	8.0	6.9	7.0
Melting point	no data available	no data available	no data available
Initial boiling point	no data available	100°C	no data available
Flash point	not applicable	not applicable	not applicable
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	no data available	no data available
Vapor density	no data available	no data available	no data available
Relative density	no data available	0.999 @ 20°C	no data available
Water solubility	soluble	soluble	soluble
Partition coefficient: n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available

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Oxidizing properties	no data available	no data available	no data available
	<u>Reticulocyte Diluent</u>	<u>Leukocyte stain</u>	<u>Reticulocyte stain</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	blue	blue
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	9.1	6.0 – 8.0	6.0 – 8.0
Melting point	no data available	no data available	no data available
Initial boiling point	100°C	no data available	no data available
Flash point	not applicable	63°C (145°F)	63°C (145°F)
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	0.06 hPa @ 20°C	0.06 hPa @ 20°C
Vapor density	no data available	2.1 g/cm ³	2.1 g/cm ³
Relative density	1.011 @ 20°C	1.09 @ 20°C	1.09 @ 20°C
Water solubility	soluble	soluble	soluble
Partition coefficient:			
n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available
Oxidizing properties	no data available	no data available	no data available

	<u>e-Check Controls</u>
Form	liquid
Color (Colour)	red
Odor (Odour)	no data available
Odor Threshold	no data available
pH	6.0 – 8.0
Melting point	no data available
Initial boiling point	no data available
Flash point	not applicable
Evaporation rate	no data available
Flammability	not applicable
Upper/lower flammability or explosive limits	no data available
Vapor (Vapour) pressure	no data available
Vapor density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient:	
n-octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

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10. STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Boric acid

Acute toxicity	LD50 Oral - rat - 2,660 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific Target Organ Toxicity – Single Exposure	no data available
Specific Target Organ Toxicity – Repeated Exposure	no data available
Aspiration hazard	no data available

Methanol

Acute toxicity	LD50 Oral - Rat – 1,187 – 2,769 mg/kg LC50 Inhalation - Rat - 4 h – 128.2 mg/l LD50 Dermal - Rabbit – 17,100 mg/kg
Skin corrosion/irritation	Skin - rabbit – No skin irritation
Serious eye damage/eye irritation	Eyes - rabbit – No eye irritation
Respiratory or skin sensitization	Guinea pig – Does not cause skin sensitization.
Germ cell mutagenicity	Ames test – S. typhimurium – negative in vitro assay – fibroblast – negative Genotoxicity in vivo – Mouse – male and female – negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Fertility classification not possible from current data.
Specific Target Organ Toxicity – Single Exposure	Causes damage to organs.
Specific Target Organ Toxicity – Repeated Exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

Boric acid

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Toxicity to fish	LC50 - <i>Ptychocheilus lucius</i> - 279 mg/l - 96 h LC0 - <i>Lepomis macrochirus</i> (Bluegill) - > 1,021 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - <i>Daphnia magna</i> (Water flea) - 53.2 mg/l - 21 d EC50 - <i>Daphnia magna</i> (Water flea) - 133 mg/l - 48 h
Toxicity to algae	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Methanol

Toxicity to fish	mortality LC50 – <i>Lepomis macrochirus</i> (Bluegill) – 15,400.0 mg/l – 96 h NOEC – <i>Oryzias latipes</i> – 7,900 mg/l – 200 h
Toxicity to daphnia and other aquatic invertebrates	EC50 – <i>Daphnia magna</i> (Water flea) - > 10,000.00 mg/l – 48
Toxicity to algae	Growth inhibition EC50 – <i>Scenedesmus capricornutum</i> (fresh water algae) – 22,000.0 mg/l – 96 h
Persistence and degradability	Biodegradability aerobic – Exposure time 5 d Result: 72 % - rapidly biodegradable
Bioaccumulative potential	Bioaccumulation <i>Cyprinus carpio</i> (Carp) – 72 d at 20 °C -5 mg/l Bioconcentration factor (BCF): 1.0
Mobility in soil	Will not adsorb on soil.
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	Biochemical Oxygen Demand (BOD) – 600 – 1,120 mg/g Chemical Oxygen Demand (COD) – 1,420 mg/g Theoretical oxygen demand – 1,500 mg/g Stability in water at 19 °C 83 – 91% - 72 h Remarks: Hydrolyses on contact with water. Hydrolyses readily.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.
 Contaminated packaging Dispose of as unused product.

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

14. TRANSPORT INFORMATION

IDEXX ProCyte DX Reagent Kit, e-Check Controls

DOT (US) Not a dangerous good
 ADR/RID Not a dangerous good
 IMDG Not a dangerous good
 ICAO/IATA Not a dangerous good

IDEXX ProCyte Dx Stain Pack

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UN Number

USDOT: 1993 ADR/RID: 1993 IMDG: 1993 IATA: 1993

UN proper shipping name

USDOT: Flammable liquid, n.o.s. (Methanol solution)
 ADR/RID: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IMDG: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IATA: Flammable liquid, n.o.s. (Methanol solution)

Hazard Class

USDOT: 3 ADR/RID: 3 IMDG: 3 IATA: 3

Packaging Group

USDOT: III ADR/RID: III IMDG: III IATA: III

Environmental hazards

USDOT: No ADR/RID: No IMDG Marine pollutant: No IATA: No EMS Number: F-E,S-E

Quantity Limitations

Limited quantity (LQ):
 Passenger aircraft/rail: 10L Cargo aircraft only: 220L

Excepted quantity (EQ):

Maximum net quantity per inner packaging: 30ml
 Maximum net quantity per outer package: 1000ml

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.
 This safety datasheet complies with the requirements of Regulation OSHA 1910.1200.

Boric acid: Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

Safety, health and environmental regulations/legislation specific for the substance or mixture

Ireland, Singapore, South Africa, United Kingdom

No data available

Australia

Component	Regulation	Information
Boric acid	Standard for the Uniform Scheduling of Medicines and Poisons	No data available
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed
Methanol	Standard for the Uniform Scheduling of Medicines and Poisons	Schedule 6
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed

Canada

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Component	WHMIS
Boric acid	D2A Very Toxic Material Causing Other Toxic Effects Teratogen Reproductive hazard
Methanol	B2 Flammable liquid Flammable liquid D1B Toxic Material Causing Immediate and Serious Toxic Effects Toxic by ingestion, Toxic by skin absorption, Toxic by inhalation. Specific target organ toxicity – single exposure

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

New Zealand

Component	HSNO
Boric acid	No data available
Methanol	HSNO Approval Code: HSR001186 HSNO Group Standard Approval: HSR002596 – Laboratory Chemicals and Reagent Kits Group Standard Tracking Required: not required Approved Handler Cert.: not required

United States

Component	Regulation	Information
Boric acid	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Chronic Health Hazard
	California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Methanol	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
	California Prop. 65	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

None

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Identified uses	For veterinary use only.		
Company	IDEXX Laboratories, Inc. One IDEXX Drive Westbrook, ME 04092 United States	IDEXX Laboratories Pty Ltd. Metro Centre Unit 20, 38-46 South Street Rydalmere, NSW 2116 Australia	IDEXX Europe B.V. Scorpius 60 Building F Hoofddorp 2132 LR The Netherlands
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South Africa 0-800-983-611
United Kingdom +(44)-870-8200418

2. HAZARDS IDENTIFICATION

GHS Classification

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance according to GHS.
<u>HGB Reagent</u>	Not a hazardous substance according to GHS.
<u>Lytic Reagent</u>	Not a hazardous substance according to GHS.
<u>Retic Diluent</u>	Not a hazardous substance according to GHS.

IDEXX e-Check Controls

e-Check Controls Not a hazardous substance according to GHS.

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Flammable Liquid, Category 4
Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H227 H302+H312+H332 H371	Combustible liquid Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs
Precautionary statement(s)	P210 P260 P264 P270	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

SAFETY DATA SHEET

IDEXX ProCyte Dx Reagent Kit 99-26306-00
IDEXX ProCyte Dx Stain Pack 98-71001-00
IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification according to Regulation (EC) No 1272/2008

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>HGB Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Lytic Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Retic Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

IDEXX e-Check Controls

<u>e-Check Controls</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
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IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H302+H312+H332 H371	Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs.
Precautionary statement(s)	P260 P264 P270 P271 P280 P301+P312 P330 P302+P352 P304+P340 P362+P364 P405	Do not breath dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash before reuse. Store locked up.

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 IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

P501

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

Other hazards – e-Check Controls - Biohazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

IDEXX ProCyte DX Reagent Kit

System Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Boric acid	10043-35-3	233-139-2	005-007-00-2	ED4550000	0.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 99%

HGB Reagent, Lytic Reagent, Reticulocyte Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX e-Check Controls

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	3.0%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 96%

Reticulocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	7.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 92%

4. FIRST AID MEASURES

Description of first aid measures

IDEXX ProCyte DX Reagent Kit, e-Check Controls

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 IF SWALLOWED: Rinse mouth.

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IDEXX ProCyte Dx Stain Pack 98-71001-00
IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

IDEXX ProCyte Dx Stain Pack

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides.

Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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 IDEXX ProCyte Dx Stain Pack 98-71001-00
 IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

Specific end use

For veterinary use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Boric acid	10043-35-3	TWA	2.0 mg/m3	Canada. British Columbia OEL
			6.0 mg/m3	
		TWA	2.0 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		STEL	6.0 mg/m3	
Methanol	67-56-1	STEL	250 ppm (328 mg/m3)	Australia. Workplace Exposure Standards for Airborne Contaminants.
		TWA	200 ppm (262 mg/m3)	
		TWA	200 ppm (262 mg/m3)	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm	Canada. British Columbia OEL
		STEL	250 ppm	
		TWAEV	200 ppm (262 mg/m3)	Canada. Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEV	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	Europe. Indicative occupational exposure limit values
		OELV-8hr	200 (260 mg/m3)	Ireland. List of Chemical Agents and Occupational Exposure Limit Values – Schedule 1
		WES-TWA	200 ppm (262 mg/m3)	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
		WES-STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	UK. EH40 WEL – Workplace Exposure Limits
		STEL	250 ppm (333 mg/m3)	
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
STEL	250 ppm			
TWA	200 ppm (260 mg/m3)	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological Specimen	Basis
Methanol	67-56-1	Methyl alcohol	15.0 mg/l	Urine	New Zealand. Biological Exposure Indices
			15.0 mg/l	Urine	USA. ACGIH – Biological Exposure Indices (BEI)

Derived No Effect Level (DNEL) – Methanol

Application Area	Exposure routes	Health effect	Value
Workers	Skin contact	Long-term systemic effects Acute systemic effects	40mg/kg BW/d
		Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects

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IDEXX ProCytex e-Check Controls 99-19020-00, 99-26305-00

		Acute local effects	
Consumers	Ingestion	Long-term systemic effects	8 mg/kg BW/d
	Skin contact	Long-term systemic effects	8 mg/kg BW/d
		Acute systemic effects	
Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects Acute local effects	50 mg/m3	

Predicted No Effect Concentration (PNEC) – Methanol

Compartment	Value
Soil	23.5 mg/kg
Marine water	15.4 mg/l
Fresh water	154 mg/l
Fresh water sediment	570.4 mg/kg
Onsite sewage treatment plant	100 mg/kg

Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin, or on clothing.

Personal protective equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection.
Skin protection Handle with gloves.
Eye protection Safety glasses.
Body protection Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

	<u>System Diluent</u>	<u>HGB Reagent</u>	<u>Lytic Reagent</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	light yellow	colorless
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	8.0	6.9	7.0
Melting point	no data available	no data available	no data available
Initial boiling point	no data available	100°C	no data available
Flash point	not applicable	not applicable	not applicable
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	no data available	no data available
Vapor density	no data available	no data available	no data available
Relative density	no data available	0.999 @ 20°C	no data available
Water solubility	soluble	soluble	soluble
Partition coefficient:			
n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available

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Oxidizing properties	no data available	no data available	no data available
	<u>Reticulocyte Diluent</u>	<u>Leukocyte stain</u>	<u>Reticulocyte stain</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	blue	blue
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	9.1	6.0 – 8.0	6.0 – 8.0
Melting point	no data available	no data available	no data available
Initial boiling point	100°C	no data available	no data available
Flash point	not applicable	63°C (145°F)	63°C (145°F)
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	0.06 hPa @ 20°C	0.06 hPa @ 20°C
Vapor density	no data available	2.1 g/cm ³	2.1 g/cm ³
Relative density	1.011 @ 20°C	1.09 @ 20°C	1.09 @ 20°C
Water solubility	soluble	soluble	soluble
Partition coefficient:			
n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available
Oxidizing properties	no data available	no data available	no data available

	<u>e-Check Controls</u>
Form	liquid
Color (Colour)	red
Odor (Odour)	no data available
Odor Threshold	no data available
pH	6.0 – 8.0
Melting point	no data available
Initial boiling point	no data available
Flash point	not applicable
Evaporation rate	no data available
Flammability	not applicable
Upper/lower flammability or explosive limits	no data available
Vapor (Vapour) pressure	no data available
Vapor density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient:	
n-octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SAFETY DATA SHEET

IDEXX ProCyt Dx Reagent Kit 99-26306-00
IDEXX ProCyt Dx Stain Pack 98-71001-00
IDEXX ProCyt e-Check Controls 99-19020-00, 99-26305-00

10. STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Boric acid

Acute toxicity	LD50 Oral - rat - 2,660 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific Target Organ Toxicity – Single Exposure	no data available
Specific Target Organ Toxicity – Repeated Exposure	no data available
Aspiration hazard	no data available

Methanol

Acute toxicity	LD50 Oral - Rat – 1,187 – 2,769 mg/kg LC50 Inhalation - Rat - 4 h – 128.2 mg/l LD50 Dermal - Rabbit – 17,100 mg/kg
Skin corrosion/irritation	Skin - rabbit – No skin irritation
Serious eye damage/eye irritation	Eyes - rabbit – No eye irritation
Respiratory or skin sensitization	Guinea pig – Does not cause skin sensitization.
Germ cell mutagenicity	Ames test – S. typhimurium – negative in vitro assay – fibroblast – negative Genotoxicity in vivo – Mouse – male and female – negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Fertility classification not possible from current data.
Specific Target Organ Toxicity – Single Exposure	Causes damage to organs.
Specific Target Organ Toxicity – Repeated Exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

Boric acid

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Toxicity to fish	LC50 - <i>Ptychocheilus lucius</i> - 279 mg/l - 96 h LC0 - <i>Lepomis macrochirus</i> (Bluegill) - > 1,021 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - <i>Daphnia magna</i> (Water flea) - 53.2 mg/l - 21 d EC50 - <i>Daphnia magna</i> (Water flea) - 133 mg/l - 48 h
Toxicity to algae	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Methanol

Toxicity to fish	mortality LC50 – <i>Lepomis macrochirus</i> (Bluegill) – 15,400.0 mg/l – 96 h NOEC – <i>Oryzias latipes</i> – 7,900 mg/l – 200 h
Toxicity to daphnia and other aquatic invertebrates	EC50 – <i>Daphnia magna</i> (Water flea) - > 10,000.00 mg/l – 48
Toxicity to algae	Growth inhibition EC50 – <i>Scenedesmus capricornutum</i> (fresh water algae) – 22,000.0 mg/l – 96 h
Persistence and degradability	Biodegradability aerobic – Exposure time 5 d Result: 72 % - rapidly biodegradable
Bioaccumulative potential	Bioaccumulation <i>Cyprinus carpio</i> (Carp) – 72 d at 20 °C -5 mg/l Bioconcentration factor (BCF): 1.0
Mobility in soil	Will not adsorb on soil.
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	Biochemical Oxygen Demand (BOD) – 600 – 1,120 mg/g Chemical Oxygen Demand (COD) – 1,420 mg/g Theoretical oxygen demand – 1,500 mg/g Stability in water at 19 °C 83 – 91% - 72 h Remarks: Hydrolyses on contact with water. Hydrolyses readily.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.
 Contaminated packaging Dispose of as unused product.

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

14. TRANSPORT INFORMATION

IDEXX ProCyte DX Reagent Kit, e-Check Controls

DOT (US) Not a dangerous good
 ADR/RID Not a dangerous good
 IMDG Not a dangerous good
 ICAO/IATA Not a dangerous good

IDEXX ProCyte Dx Stain Pack

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 IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

UN Number

USDOT: 1993 ADR/RID: 1993 IMDG: 1993 IATA: 1993

UN proper shipping name

USDOT: Flammable liquid, n.o.s. (Methanol solution)
 ADR/RID: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IMDG: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IATA: Flammable liquid, n.o.s. (Methanol solution)

Hazard Class

USDOT: 3 ADR/RID: 3 IMDG: 3 IATA: 3

Packaging Group

USDOT: III ADR/RID: III IMDG: III IATA: III

Environmental hazards

USDOT: No ADR/RID: No IMDG Marine pollutant: No IATA: No EMS Number: F-E,S-E

Quantity Limitations

Limited quantity (LQ):
 Passenger aircraft/rail: 10L Cargo aircraft only: 220L

Excepted quantity (EQ):

Maximum net quantity per inner packaging: 30ml
 Maximum net quantity per outer package: 1000ml

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.
 This safety datasheet complies with the requirements of Regulation OSHA 1910.1200.

Boric acid: Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

Safety, health and environmental regulations/legislation specific for the substance or mixture

Ireland, Singapore, South Africa, United Kingdom

No data available

Australia

Component	Regulation	Information
Boric acid	Standard for the Uniform Scheduling of Medicines and Poisons	No data available
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed
Methanol	Standard for the Uniform Scheduling of Medicines and Poisons	Schedule 6
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed

Canada

SAFETY DATA SHEET

IDEXX ProCytex Dx Reagent Kit 99-26306-00
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 IDEXX ProCytex e-Check Controls 99-19020-00, 99-26305-00

Component	WHMIS
Boric acid	D2A Very Toxic Material Causing Other Toxic Effects Teratogen Reproductive hazard
Methanol	B2 Flammable liquid Flammable liquid D1B Toxic Material Causing Immediate and Serious Toxic Effects Toxic by ingestion, Toxic by skin absorption, Toxic by inhalation. Specific target organ toxicity – single exposure

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

New Zealand

Component	HSNO
Boric acid	No data available
Methanol	HSNO Approval Code: HSR001186 HSNO Group Standard Approval: HSR002596 – Laboratory Chemicals and Reagent Kits Group Standard Tracking Required: not required Approved Handler Cert.: not required

United States

Component	Regulation	Information
Boric acid	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Chronic Health Hazard
	California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Methanol	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
	California Prop. 65	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

None

SAFETY DATA SHEET

IDEXX ProCyte Dx Reagent Kit 99-26306-00
IDEXX ProCyte Dx Stain Pack 98-71001-00
IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name(s)	IDEXX ProCyte Dx Reagent Kit	99-26306-00	
Product code(s)	IDEXX ProCyte Dx Stain Pack	98-71001-00	
	IDEXX ProCyte e-Check Controls	99-19020-00, 99-26305-00	
Identified uses	For veterinary use only.		
Company	IDEXX Laboratories, Inc. One IDEXX Drive Westbrook, ME 04092 United States	IDEXX Laboratories Pty Ltd. Metro Centre Unit 20, 38-46 South Street Rydalmere, NSW 2116 Australia	IDEXX Europe B.V. Scorpius 60 Building F Hoofddorp 2132 LR The Netherlands
Telephone	1-800-548-6733	1-800-655-978	00800 727 43399
Fax	1-207-556-4346	1-800-634-409	00800 433 99329

24 hour Emergency Phone # CHEMTREC 1-800-424-9300
Outside U.S. +(00)-1-703-527-3887
Australia +(61)-290372994
New Zealand +(64)-98010034
Singapore +(65)-31581349
South Africa 0-800-983-611
United Kingdom +(44)-870-8200418

2. HAZARDS IDENTIFICATION

GHS Classification

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance according to GHS.
<u>HGB Reagent</u>	Not a hazardous substance according to GHS.
<u>Lytic Reagent</u>	Not a hazardous substance according to GHS.
<u>Retic Diluent</u>	Not a hazardous substance according to GHS.

IDEXX e-Check Controls

e-Check Controls Not a hazardous substance according to GHS.

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Flammable Liquid, Category 4
Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H227 H302+H312+H332 H371	Combustible liquid Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs
Precautionary statement(s)	P210 P260 P264 P270	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

SAFETY DATA SHEET

IDEXX ProCyte Dx Reagent Kit 99-26306-00
IDEXX ProCyte Dx Stain Pack 98-71001-00
IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification according to Regulation (EC) No 1272/2008

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>HGB Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Lytic Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Retic Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

IDEXX e-Check Controls

<u>e-Check Controls</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
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IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H302+H312+H332 H371	Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs.
Precautionary statement(s)	P260 P264 P270 P271 P280 P301+P312 P330 P302+P352 P304+P340 P362+P364 P405	Do not breath dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash before reuse. Store locked up.

SAFETY DATA SHEET

IDEXX ProCyte Dx Reagent Kit 99-26306-00
 IDEXX ProCyte Dx Stain Pack 98-71001-00
 IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

P501

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

Other hazards – e-Check Controls - Biohazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

IDEXX ProCyte DX Reagent Kit

System Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Boric acid	10043-35-3	233-139-2	005-007-00-2	ED4550000	0.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 99%

HGB Reagent, Lytic Reagent, Reticulocyte Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX e-Check Controls

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	3.0%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 96%

Reticulocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	7.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 92%

4. FIRST AID MEASURES

Description of first aid measures

IDEXX ProCyte DX Reagent Kit, e-Check Controls

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 IF SWALLOWED: Rinse mouth.

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IDEXX ProCyte Dx Stain Pack

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides.

Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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 IDEXX ProCyte Dx Stain Pack 98-71001-00
 IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

Specific end use

For veterinary use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Boric acid	10043-35-3	TWA	2.0 mg/m3	Canada. British Columbia OEL
			6.0 mg/m3	
		TWA	2.0 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		STEL	6.0 mg/m3	
Methanol	67-56-1	STEL	250 ppm (328 mg/m3)	Australia. Workplace Exposure Standards for Airborne Contaminants.
		TWA	200 ppm (262 mg/m3)	
		TWA	200 ppm (262 mg/m3)	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm	Canada. British Columbia OEL
		STEL	250 ppm	
		TWAEV	200 ppm (262 mg/m3)	Canada. Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEV	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	Europe. Indicative occupational exposure limit values
		OELV-8hr	200 (260 mg/m3)	Ireland. List of Chemical Agents and Occupational Exposure Limit Values – Schedule 1
		WES-TWA	200 ppm (262 mg/m3)	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
		WES-STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	UK. EH40 WEL – Workplace Exposure Limits
		STEL	250 ppm (333 mg/m3)	
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
STEL	250 ppm			
TWA	200 ppm (260 mg/m3)	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological Specimen	Basis
Methanol	67-56-1	Methyl alcohol	15.0 mg/l	Urine	New Zealand. Biological Exposure Indices
			15.0 mg/l	Urine	USA. ACGIH – Biological Exposure Indices (BEI)

Derived No Effect Level (DNEL) – Methanol

Application Area	Exposure routes	Health effect	Value
Workers	Skin contact	Long-term systemic effects Acute systemic effects	40mg/kg BW/d
		Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects

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		Acute local effects	
Consumers	Ingestion	Long-term systemic effects	8 mg/kg BW/d
	Skin contact	Long-term systemic effects	8 mg/kg BW/d
		Acute systemic effects	
Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects Acute local effects	50 mg/m3	

Predicted No Effect Concentration (PNEC) – Methanol

Compartment	Value
Soil	23.5 mg/kg
Marine water	15.4 mg/l
Fresh water	154 mg/l
Fresh water sediment	570.4 mg/kg
Onsite sewage treatment plant	100 mg/kg

Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin, or on clothing.

Personal protective equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection.
Skin protection Handle with gloves.
Eye protection Safety glasses.
Body protection Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

	<u>System Diluent</u>	<u>HGB Reagent</u>	<u>Lytic Reagent</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	light yellow	colorless
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	8.0	6.9	7.0
Melting point	no data available	no data available	no data available
Initial boiling point	no data available	100°C	no data available
Flash point	not applicable	not applicable	not applicable
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	no data available	no data available
Vapor density	no data available	no data available	no data available
Relative density	no data available	0.999 @ 20°C	no data available
Water solubility	soluble	soluble	soluble
Partition coefficient:			
n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available

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Oxidizing properties	no data available	no data available	no data available
	<u>Reticulocyte Diluent</u>	<u>Leukocyte stain</u>	<u>Reticulocyte stain</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	blue	blue
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	9.1	6.0 – 8.0	6.0 – 8.0
Melting point	no data available	no data available	no data available
Initial boiling point	100°C	no data available	no data available
Flash point	not applicable	63°C (145°F)	63°C (145°F)
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	0.06 hPa @ 20°C	0.06 hPa @ 20°C
Vapor density	no data available	2.1 g/cm ³	2.1 g/cm ³
Relative density	1.011 @ 20°C	1.09 @ 20°C	1.09 @ 20°C
Water solubility	soluble	soluble	soluble
Partition coefficient: n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available
Oxidizing properties	no data available	no data available	no data available

	<u>e-Check Controls</u>
Form	liquid
Color (Colour)	red
Odor (Odour)	no data available
Odor Threshold	no data available
pH	6.0 – 8.0
Melting point	no data available
Initial boiling point	no data available
Flash point	not applicable
Evaporation rate	no data available
Flammability	not applicable
Upper/lower flammability or explosive limits	no data available
Vapor (Vapour) pressure	no data available
Vapor density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

SAFETY DATA SHEET

IDEXX ProCyt Dx Reagent Kit 99-26306-00
IDEXX ProCyt Dx Stain Pack 98-71001-00
IDEXX ProCyt e-Check Controls 99-19020-00, 99-26305-00

10. STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Boric acid

Acute toxicity	LD50 Oral - rat - 2,660 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific Target Organ Toxicity – Single Exposure	no data available
Specific Target Organ Toxicity – Repeated Exposure	no data available
Aspiration hazard	no data available

Methanol

Acute toxicity	LD50 Oral - Rat – 1,187 – 2,769 mg/kg LC50 Inhalation - Rat - 4 h – 128.2 mg/l LD50 Dermal - Rabbit – 17,100 mg/kg
Skin corrosion/irritation	Skin - rabbit – No skin irritation
Serious eye damage/eye irritation	Eyes - rabbit – No eye irritation
Respiratory or skin sensitization	Guinea pig – Does not cause skin sensitization.
Germ cell mutagenicity	Ames test – S. typhimurium – negative in vitro assay – fibroblast – negative Genotoxicity in vivo – Mouse – male and female – negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Fertility classification not possible from current data.
Specific Target Organ Toxicity – Single Exposure	Causes damage to organs.
Specific Target Organ Toxicity – Repeated Exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

Boric acid

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Toxicity to fish	LC50 - <i>Ptychocheilus lucius</i> - 279 mg/l - 96 h LC0 - <i>Lepomis macrochirus</i> (Bluegill) - > 1,021 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - <i>Daphnia magna</i> (Water flea) - 53.2 mg/l - 21 d EC50 - <i>Daphnia magna</i> (Water flea) - 133 mg/l - 48 h
Toxicity to algae	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Methanol

Toxicity to fish	mortality LC50 – <i>Lepomis macrochirus</i> (Bluegill) – 15,400.0 mg/l – 96 h NOEC – <i>Oryzias latipes</i> – 7,900 mg/l – 200 h
Toxicity to daphnia and other aquatic invertebrates	EC50 – <i>Daphnia magna</i> (Water flea) - > 10,000.00 mg/l – 48
Toxicity to algae	Growth inhibition EC50 – <i>Scenedesmus capricornutum</i> (fresh water algae) – 22,000.0 mg/l – 96 h
Persistence and degradability	Biodegradability aerobic – Exposure time 5 d Result: 72 % - rapidly biodegradable
Bioaccumulative potential	Bioaccumulation <i>Cyprinus carpio</i> (Carp) – 72 d at 20 °C -5 mg/l Bioconcentration factor (BCF): 1.0
Mobility in soil	Will not adsorb on soil.
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	Biochemical Oxygen Demand (BOD) – 600 – 1,120 mg/g Chemical Oxygen Demand (COD) – 1,420 mg/g Theoretical oxygen demand – 1,500 mg/g Stability in water at 19 °C 83 – 91% - 72 h Remarks: Hydrolyses on contact with water. Hydrolyses readily.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.
 Contaminated packaging Dispose of as unused product.

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

14. TRANSPORT INFORMATION

IDEXX ProCyte DX Reagent Kit, e-Check Controls

DOT (US) Not a dangerous good
 ADR/RID Not a dangerous good
 IMDG Not a dangerous good
 ICAO/IATA Not a dangerous good

IDEXX ProCyte Dx Stain Pack

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 IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

UN Number

USDOT: 1993 ADR/RID: 1993 IMDG: 1993 IATA: 1993

UN proper shipping name

USDOT: Flammable liquid, n.o.s. (Methanol solution)
 ADR/RID: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IMDG: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IATA: Flammable liquid, n.o.s. (Methanol solution)

Hazard Class

USDOT: 3 ADR/RID: 3 IMDG: 3 IATA: 3

Packaging Group

USDOT: III ADR/RID: III IMDG: III IATA: III

Environmental hazards

USDOT: No ADR/RID: No IMDG Marine pollutant: No IATA: No EMS Number: F-E,S-E

Quantity Limitations

Limited quantity (LQ):
 Passenger aircraft/rail: 10L Cargo aircraft only: 220L

Excepted quantity (EQ):

Maximum net quantity per inner packaging: 30ml
 Maximum net quantity per outer package: 1000ml

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.
 This safety datasheet complies with the requirements of Regulation OSHA 1910.1200.

Boric acid: Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

Safety, health and environmental regulations/legislation specific for the substance or mixture

Ireland, Singapore, South Africa, United Kingdom

No data available

Australia

Component	Regulation	Information
Boric acid	Standard for the Uniform Scheduling of Medicines and Poisons	No data available
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed
Methanol	Standard for the Uniform Scheduling of Medicines and Poisons	Schedule 6
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed

Canada

SAFETY DATA SHEET

IDEXX ProCytex Dx Reagent Kit 99-26306-00
 IDEXX ProCytex Dx Stain Pack 98-71001-00
 IDEXX ProCytex e-Check Controls 99-19020-00, 99-26305-00

Component	WHMIS
Boric acid	D2A Very Toxic Material Causing Other Toxic Effects Teratogen Reproductive hazard
Methanol	B2 Flammable liquid Flammable liquid D1B Toxic Material Causing Immediate and Serious Toxic Effects Toxic by ingestion, Toxic by skin absorption, Toxic by inhalation. Specific target organ toxicity – single exposure

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

New Zealand

Component	HSNO
Boric acid	No data available
Methanol	HSNO Approval Code: HSR001186 HSNO Group Standard Approval: HSR002596 – Laboratory Chemicals and Reagent Kits Group Standard Tracking Required: not required Approved Handler Cert.: not required

United States

Component	Regulation	Information
Boric acid	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Chronic Health Hazard
	California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Methanol	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
	California Prop. 65	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

None

SAFETY DATA SHEET

IDEXX ProCyte Dx Reagent Kit 99-26306-00
IDEXX ProCyte Dx Stain Pack 98-71001-00
IDEXX ProCyte e-Check Controls 99-19020-00, 99-26305-00

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name(s)	IDEXX ProCyte Dx Reagent Kit	99-26306-00	
Product code(s)	IDEXX ProCyte Dx Stain Pack	98-71001-00	
	IDEXX ProCyte e-Check Controls	99-19020-00, 99-26305-00	
Identified uses	For veterinary use only.		
Company	IDEXX Laboratories, Inc. One IDEXX Drive Westbrook, ME 04092 United States	IDEXX Laboratories Pty Ltd. Metro Centre Unit 20, 38-46 South Street Rydalmere, NSW 2116 Australia	IDEXX Europe B.V. Scorpius 60 Building F Hoofddorp 2132 LR The Netherlands
Telephone	1-800-548-6733	1-800-655-978	00800 727 43399
Fax	1-207-556-4346	1-800-634-409	00800 433 99329

24 hour Emergency Phone # CHEMTREC 1-800-424-9300
Outside U.S. +(00)-1-703-527-3887
Australia +(61)-290372994
New Zealand +(64)-98010034
Singapore +(65)-31581349
South Africa 0-800-983-611
United Kingdom +(44)-870-8200418

2. HAZARDS IDENTIFICATION

GHS Classification

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance according to GHS.
<u>HGB Reagent</u>	Not a hazardous substance according to GHS.
<u>Lytic Reagent</u>	Not a hazardous substance according to GHS.
<u>Retic Diluent</u>	Not a hazardous substance according to GHS.

IDEXX e-Check Controls

e-Check Controls Not a hazardous substance according to GHS.

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Flammable Liquid, Category 4
Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H227 H302+H312+H332 H371	Combustible liquid Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs
Precautionary statement(s)	P210 P260 P264 P270	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

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P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification according to Regulation (EC) No 1272/2008

IDEXX ProCyte DX Reagent Kit

<u>System Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>HGB Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Lytic Reagent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
<u>Retic Diluent</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

IDEXX e-Check Controls

<u>e-Check Controls</u>	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
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IDEXX ProCyte Dx Stain Pack

Leukocyte Stain and Retic Stain

Acute Toxicity Oral, Dermal, Inhalation, Category 4
Specific Target Organ Toxicity, Single Exposure, Category 2
Pictogram



Signal Word	Warning	
Hazard statement(s)	H302+H312+H332 H371	Harmful if swallowed, in contact with skin or if inhaled. May cause damage to organs.
Precautionary statement(s)	P260 P264 P270 P271 P280 P301+P312 P330 P302+P352 P304+P340 P362+P364 P405	Do not breath dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing and wash before reuse. Store locked up.

SAFETY DATA SHEET

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P501

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

Other hazards – e-Check Controls - Biohazard

3. COMPOSITION/INFORMATION ON INGREDIENTS

IDEXX ProCyte DX Reagent Kit

System Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Boric acid	10043-35-3	233-139-2	005-007-00-2	ED4550000	0.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 99%

HGB Reagent, Lytic Reagent, Reticulocyte Diluent

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX e-Check Controls

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Components that are not hazardous or do not need to be disclosed according to applicable regulations					> 99%

IDEXX ProCyte Dx Stain Pack

Leukocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	3.0%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 96%

Reticulocyte Stain

Component	CAS-No.	EC-No.	Index-No.	RTECS-No.	Concentration
Methanol	67-56-1	200-659-6	603-001-00-X	PC1400000	7.1%
Components that are not hazardous or do not need to be disclosed according to applicable regulations	-	-	-	-	> 92%

4. FIRST AID MEASURES

Description of first aid measures

IDEXX ProCyte DX Reagent Kit, e-Check Controls

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
 IF SWALLOWED: Rinse mouth.

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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE FIGHTING MEASURES**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides.

Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

Further information

no data available

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**Precautions for safe handling**

Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Specific end use

For veterinary use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Boric acid	10043-35-3	TWA	2.0 mg/m3	Canada. British Columbia OEL
			6.0 mg/m3	
		TWA	2.0 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		STEL	6.0 mg/m3	
Methanol	67-56-1	STEL	250 ppm (328 mg/m3)	Australia. Workplace Exposure Standards for Airborne Contaminants.
		TWA	200 ppm (262 mg/m3)	
		TWA	200 ppm (262 mg/m3)	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm	Canada. British Columbia OEL
		STEL	250 ppm	
		TWAEV	200 ppm (262 mg/m3)	Canada. Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEV	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	Europe. Indicative occupational exposure limit values
		OELV-8hr	200 (260 mg/m3)	Ireland. List of Chemical Agents and Occupational Exposure Limit Values – Schedule 1
		WES-TWA	200 ppm (262 mg/m3)	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
		WES-STEL	250 ppm (328 mg/m3)	
		TWA	200 ppm (260 mg/m3)	UK. EH40 WEL – Workplace Exposure Limits
		STEL	250 ppm (333 mg/m3)	
		TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
STEL	250 ppm			
TWA	200 ppm (260 mg/m3)	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants		

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological Specimen	Basis
Methanol	67-56-1	Methyl alcohol	15.0 mg/l	Urine	New Zealand. Biological Exposure Indices
			15.0 mg/l	Urine	USA. ACGIH – Biological Exposure Indices (BEI)

Derived No Effect Level (DNEL) – Methanol

Application Area	Exposure routes	Health effect	Value
Workers	Skin contact	Long-term systemic effects Acute systemic effects	40mg/kg BW/d
		Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects

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		Acute local effects	
Consumers	Ingestion	Long-term systemic effects	8 mg/kg BW/d
	Skin contact	Long-term systemic effects	8 mg/kg BW/d
		Acute systemic effects	
Inhalation	Long-term systemic effects Long-term local effects Acute systemic effects Acute local effects	50 mg/m3	

Predicted No Effect Concentration (PNEC) – Methanol

Compartment	Value
Soil	23.5 mg/kg
Marine water	15.4 mg/l
Fresh water	154 mg/l
Fresh water sediment	570.4 mg/kg
Onsite sewage treatment plant	100 mg/kg

Exposure controls

Handle in accordance with good industrial hygiene and safety practice. Do not get in eyes, on skin, or on clothing.

Personal protective equipment

Respiratory protection In case of inadequate ventilation wear respiratory protection.
Skin protection Handle with gloves.
Eye protection Safety glasses.
Body protection Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

	<u>System Diluent</u>	<u>HGB Reagent</u>	<u>Lytic Reagent</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	light yellow	colorless
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	8.0	6.9	7.0
Melting point	no data available	no data available	no data available
Initial boiling point	no data available	100°C	no data available
Flash point	not applicable	not applicable	not applicable
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	no data available	no data available
Vapor density	no data available	no data available	no data available
Relative density	no data available	0.999 @ 20°C	no data available
Water solubility	soluble	soluble	soluble
Partition coefficient: n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available

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Oxidizing properties	no data available	no data available	no data available
	<u>Reticulocyte Diluent</u>	<u>Leukocyte stain</u>	<u>Reticulocyte stain</u>
Form	liquid	liquid	liquid
Color (Colour)	colorless	blue	blue
Odor (Odour)	no data available	no data available	no data available
Odor Threshold	no data available	no data available	no data available
pH	9.1	6.0 – 8.0	6.0 – 8.0
Melting point	no data available	no data available	no data available
Initial boiling point	100°C	no data available	no data available
Flash point	not applicable	63°C (145°F)	63°C (145°F)
Evaporation rate	no data available	no data available	no data available
Flammability	not applicable	not applicable	not applicable
Upper/lower flammability or explosive limits	no data available	no data available	no data available
Vapor (Vapour) pressure	no data available	0.06 hPa @ 20°C	0.06 hPa @ 20°C
Vapor density	no data available	2.1 g/cm ³	2.1 g/cm ³
Relative density	1.011 @ 20°C	1.09 @ 20°C	1.09 @ 20°C
Water solubility	soluble	soluble	soluble
Partition coefficient:			
n-octanol/water	no data available	no data available	no data available
Autoignition temperature	no data available	no data available	no data available
Decomposition temperature	no data available	no data available	no data available
Viscosity	no data available	no data available	no data available
Explosive properties	no data available	no data available	no data available
Oxidizing properties	no data available	no data available	no data available

	<u>e-Check Controls</u>
Form	liquid
Color (Colour)	red
Odor (Odour)	no data available
Odor Threshold	no data available
pH	6.0 – 8.0
Melting point	no data available
Initial boiling point	no data available
Flash point	not applicable
Evaporation rate	no data available
Flammability	not applicable
Upper/lower flammability or explosive limits	no data available
Vapor (Vapour) pressure	no data available
Vapor density	no data available
Relative density	no data available
Water solubility	soluble
Partition coefficient:	
n-octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

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10. STABILITY AND REACTIVITY

Reactivity	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	no data available
Conditions to avoid	no data available
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	Carbon oxides, Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Boric acid

Acute toxicity	LD50 Oral - rat - 2,660 mg/kg
Skin corrosion/irritation	no data available
Serious eye damage/eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific Target Organ Toxicity – Single Exposure	no data available
Specific Target Organ Toxicity – Repeated Exposure	no data available
Aspiration hazard	no data available

Methanol

Acute toxicity	LD50 Oral - Rat – 1,187 – 2,769 mg/kg LC50 Inhalation - Rat - 4 h – 128.2 mg/l LD50 Dermal - Rabbit – 17,100 mg/kg
Skin corrosion/irritation	Skin - rabbit – No skin irritation
Serious eye damage/eye irritation	Eyes - rabbit – No eye irritation
Respiratory or skin sensitization	Guinea pig – Does not cause skin sensitization.
Germ cell mutagenicity	Ames test – S. typhimurium – negative in vitro assay – fibroblast – negative Genotoxicity in vivo – Mouse – male and female – negative
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	Fertility classification not possible from current data.
Specific Target Organ Toxicity – Single Exposure	Causes damage to organs.
Specific Target Organ Toxicity – Repeated Exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	No aspiration toxicity classification

12. ECOLOGICAL INFORMATION

Boric acid

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Toxicity to fish	LC50 - <i>Ptychocheilus lucius</i> - 279 mg/l - 96 h LC0 - <i>Lepomis macrochirus</i> (Bluegill) - > 1,021 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	LC50 - <i>Daphnia magna</i> (Water flea) - 53.2 mg/l - 21 d EC50 - <i>Daphnia magna</i> (Water flea) - 133 mg/l - 48 h
Toxicity to algae	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Methanol

Toxicity to fish	mortality LC50 – <i>Lepomis macrochirus</i> (Bluegill) – 15,400.0 mg/l – 96 h NOEC – <i>Oryzias latipes</i> – 7,900 mg/l – 200 h
Toxicity to daphnia and other aquatic invertebrates	EC50 – <i>Daphnia magna</i> (Water flea) - > 10,000.00 mg/l – 48
Toxicity to algae	Growth inhibition EC50 – <i>Scenedesmus capricornutum</i> (fresh water algae) – 22,000.0 mg/l – 96 h
Persistence and degradability	Biodegradability aerobic – Exposure time 5 d Result: 72 % - rapidly biodegradable
Bioaccumulative potential	Bioaccumulation <i>Cyprinus carpio</i> (Carp) – 72 d at 20 °C -5 mg/l Bioconcentration factor (BCF): 1.0
Mobility in soil	Will not adsorb on soil.
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	Biochemical Oxygen Demand (BOD) – 600 – 1,120 mg/g Chemical Oxygen Demand (COD) – 1,420 mg/g Theoretical oxygen demand – 1,500 mg/g Stability in water at 19 °C 83 – 91% - 72 h Remarks: Hydrolyses on contact with water. Hydrolyses readily.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product Offer surplus and non-recyclable solutions to a licensed disposal company.
 Contaminated packaging Dispose of as unused product.

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

14. TRANSPORT INFORMATION

IDEXX ProCyte DX Reagent Kit, e-Check Controls

DOT (US) Not a dangerous good
 ADR/RID Not a dangerous good
 IMDG Not a dangerous good
 ICAO/IATA Not a dangerous good

IDEXX ProCyte Dx Stain Pack

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UN Number

USDOT: 1993 ADR/RID: 1993 IMDG: 1993 IATA: 1993

UN proper shipping name

USDOT: Flammable liquid, n.o.s. (Methanol solution)
 ADR/RID: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IMDG: FLAMMABLE LIQUID, N.O.S. (Methanol solution)
 IATA: Flammable liquid, n.o.s. (Methanol solution)

Hazard Class

USDOT: 3 ADR/RID: 3 IMDG: 3 IATA: 3

Packaging Group

USDOT: III ADR/RID: III IMDG: III IATA: III

Environmental hazards

USDOT: No ADR/RID: No IMDG Marine pollutant: No IATA: No EMS Number: F-E,S-E

Quantity Limitations

Limited quantity (LQ):
 Passenger aircraft/rail: 10L Cargo aircraft only: 220L

Excepted quantity (EQ):

Maximum net quantity per inner packaging: 30ml
 Maximum net quantity per outer package: 1000ml

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.
 This safety datasheet complies with the requirements of Regulation OSHA 1910.1200.

Boric acid: Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

Safety, health and environmental regulations/legislation specific for the substance or mixture

Ireland, Singapore, South Africa, United Kingdom

No data available

Australia

Component	Regulation	Information
Boric acid	Standard for the Uniform Scheduling of Medicines and Poisons	No data available
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed
Methanol	Standard for the Uniform Scheduling of Medicines and Poisons	Schedule 6
	Carcinogen classification under WHS Regulation 2011, Schedule 10	Not listed

Canada

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Component	WHMIS
Boric acid	D2A Very Toxic Material Causing Other Toxic Effects Teratogen Reproductive hazard
Methanol	B2 Flammable liquid Flammable liquid D1B Toxic Material Causing Immediate and Serious Toxic Effects Toxic by ingestion, Toxic by skin absorption, Toxic by inhalation. Specific target organ toxicity – single exposure

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

New Zealand

Component	HSNO
Boric acid	No data available
Methanol	HSNO Approval Code: HSR001186 HSNO Group Standard Approval: HSR002596 – Laboratory Chemicals and Reagent Kits Group Standard Tracking Required: not required Approved Handler Cert.: not required

United States

Component	Regulation	Information
Boric acid	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Chronic Health Hazard
	California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Methanol	SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
	SARA 313	The following components are subject to reporting levels established by SARA Title III, Section 313.
	SARA 311/312	Fire Hazard, Acute Health Hazard, Chronic Health Hazard
	California Prop. 65	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

None