

# PBID100 Blood ID KM Phenolpthaleing Reagent Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

on
: Mixture
: PBID100 Blood ID KM Phenolpthaleing Reagent
: PBID100
and restrictions on use
: Crime Scene Investigation
- F 919-554-2266; 800-899-8181
ne number
: 1.800.424.9300 (USA) +1-703-527-3887 (INTL) CHEMTREC: 1.800.424.9300
dentification
substance or mixture
H225 Highly flammable liquid and vapour
H360 May damage fertility or the unborn child
section 16
s, including precautionary statements
Danger
: H225 - Highly flammable liquid and vapour H360 - May damage fertility or the unborn child
<ul> <li>S US)</li> <li>P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P243 - Take precautionary measures against static discharge. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P308+P313 - If exposed or concerned: Get medical advice/attention. P370+P378 - In case of fire: Use media other than water to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>

No additional information available

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# 2.4. Unknown acute toxicity (GHS US)

# Not applicable

# **SECTION 3: Composition/Information on ingredients**

- 3.1. Substances
- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	GHS US classification
sodiumperborate (NaBO3), tetrahydrate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 $\mu m$	(CAS-No.) 10486-00-7	>= 0.5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Repr. 1B, H360 STOT SE 3, H335
ethanol	(CAS-No.) 64-17-5	>= 0.25	Flam. Liq. 2, H225
AQUA	(CAS-No.) 7732-18-5	> 0.2025	Not classified
sodium hydroxide	(CAS-No.) 1310-73-2	> 0.04	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	SECTION 4: First-aid measures		
4.1. Description of first aid measures			
First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).			
First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.			
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.			
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.			
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.			
4.2. Most important symptoms and effects (acute and delayed)			
Potential Adverse human health effects and : Based on available data, the classification criteria are not met. symptoms			
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.			
4.3. Immediate medical attention and special treatment, if necessary			
No additional information available			
SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.			
Unsuitable extinguishing media : Do not use a heavy water stream.			
5.2. Specific hazards arising from the chemical			
Reactivity : No data available.			
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.			
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Emergency procedures : Evacuate unnecessary personnel.			
6.1.2. For emergency responders			
Protective equipment : Equip cleanup crew with proper protection.			
Emergency procedures : Ventilate area.			
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.			

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6.3. Methods and materia	for containment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other s	ctions
See Heading 8. Exposure control	s and personal protection.
<b>SECTION 7: Handling ar</b>	d storage
7.1. Precautions for safe	andling
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe s	orage, including any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
SECTION 8: Exposure c	ontrols/personal protection
8.1. Control parameters	
sodiumperborate (NaBO3), t	trahydrate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 µm (10486-00-7)
ACGIH	ACGIH TWA (mg/m <sup>3</sup> ) 2 mg/m <sup>3</sup> (Inhalable fraction)
ACGIH	ACGIH STEL (mg/m <sup>3</sup> ) 6 mg/m <sup>3</sup> (Inhalable fraction)

	,	
ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
sodium hydroxide (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
AQUA (7732-18-5)		
Not applicable		

## 8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

## Personal protective equipment:

Gas mask. Gloves. Safety glasses.

#### Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

## Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical an	d chemical properties	
Physical state	: Liquid	
Appearance	: Clear, colorless liquid.	
Color	: Colorless Colourless to white	
Odor	: odorless	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: Soluble in water.	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
0.2 Other information		

9.2. Other information
No additional information available

SECTION 10: Stability and r	activity	
10.1. Reactivity		
No data available.		
10.2. Chemical stability		
Stable under recommended handling	and storage conditions (see section 7).	
10.3. Possibility of hazardous	actions	
Not established.		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low	emperatures.	
10.5. Incompatible materials		
Strong acids. Strong bases.		
10.6. Hazardous decomposition	products	
fume. Carbon monoxide. Carbon diox	de.	
SECTION 11: Toxicological	hformation	
11.1. Information on toxicologi		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
sodiumperborate (NaBO3), tetrahydrate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μm (10486-00-7)		

LD50 oral rat

ATE US (oral)

1200 mg/kg (Rat, Oral)

1200 mg/kg body weight

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ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 15800 mg/kg body weight (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
sodium hydroxide (1310-73-2)	
ATE US (oral)	500 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
ethanol (64-17-5)	
Additional information	Ethyl alcohol (200 Proof) has been shown to cause cancer in Human and Animals when ingested in volume over time. There is no link to cancer in limited exposure scenarios.
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified
sodiumperborate (NaBO3), tetrahydrate, co	ntaining < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 μm (10486-00-7)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

# **SECTION 12: Ecological information**

12.1. Toxicity

sodiumperborate (NaBO3), tetrahydrate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 µm (10486-00-7)		
LC50 fish 1	51 mg/l (96 h, Brachydanio rerio, Monohydrate)	
EC50 Daphnia 1	11 mg/l (48 h, Daphnia magna, Monohydrate)	
ethanol (64-17-5)		
LC50 fish 1	15300 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)	
sodium hydroxide (1310-73-2)		
LC50 fish 1	45.4 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Solution >=50%)	
EC50 Daphnia 1	40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Nominal concentration)	

# 12.2. Persistence and degradability

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Persistence and degradability	Not established.	
sodiumperborate (NaBO3), tetrahydrate, cont	aining < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 $\mu$ m (10486-00-7)	
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
ethanol (64-17-5)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.8 - 0.967 g $O_2$ /g substance	
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ethanol (64-17-5)		
Chemical oxygen demand (COD)	1.7 g O <sub>2</sub> /g substance	
ThOD	2.1 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.43	
sodium hydroxide (1310-73-2)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

## 12.3. Bioaccumulative potential

PBID100 Blood ID KM Phenolpthaleing Reagent		
Bioaccumulative potential	Not established.	
sodiumperborate (NaBO3), tetrahydrate, containing < 0.1 % (w/w) of particles with an aerodynamic diameter < 50 µm (10486-00-7)		
Bioaccumulative potential	No bioaccumulation data available.	
ethanol (64-17-5)		
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)	
Log Pow	-0.31 (Experimental value)	
Bioaccumulative potential	Not bioaccumulative.	
sodium hydroxide (1310-73-2)		
Bioaccumulative potential	Not bioaccumulative.	

## 12.4. Mobility in soil

ethanol (64-17-5)		
22.31 mN/m (20 °C, 100 %)		
0.2 (log Koc, Experimental value)		
Highly mobile in soil.		
sodium hydroxide (1310-73-2)		
No (test)data on mobility of the substance available.		

## 12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations			
13.1. Disposal methods			
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.		
Ecology - waste materials	: Avoid release to the environment.		
SECTION 14: Transport information			
Department of Transportation (DOT)			
In accordance with DOT			
Transport document description	: UN3316 Chemical kit (MISCELLANEOUS), 9, II		
UN-No.(DOT)	: UN3316		
Proper Shipping Name (DOT)	: Chemical kit		
	MISCELLANEOUS		
Class (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140		
Packing group (DOT)	: II - Medium Danger		

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Hazard labels (DOT)

: 9 - Class 9 (Miscellaneous dangerous materials)



Other information

: No supplementary information available.

#### **Transportation of Dangerous Goods**

Not applicable

## Transport by sea

Not applicable

#### Air transport

Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
PBID100 Blood ID KM Phenolpthaleing Reagent	
Subject to reporting requirements of United States SARA Section 313	

#### 15.2. International regulations

**CANADA** No additional information available

**EU-Regulations** No additional information available

National regulations No additional information available

#### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

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Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.
Other information	: None.

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Full text of H-phrases:	
H225	Highly flammable liquid and vapour
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	<ul> <li>O - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.</li> </ul>
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: G
	G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

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