

SAFETY DATA SHEET

HCS-2012 APPENDIX D TO §1910.1200

Version 1.0.0
Product Name B-WB III / T-WB III

Issue Date 11-Aug-2016
Revision date 11-Aug-2016

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

Product identifier

Product Name B-WB III
part of MagSep Blood gDNA Kit Order No. 0030 451.007
T-WB III
part of MagSep Tissue gDNA Kit Order No. 0030 450.000

Other means of identification

No information available.

Recommended use of the chemical and restrictions on use

Recommended Use Analytical reagent
Uses advised against No information available.

Details of the supplier of the safety data sheet

Supplier Eppendorf AG
Address Barkhausenweg 1
D-22339 Hamburg
Postal Code D-22339
Phone +49 40 53801-0
Information provided by Eppendorf Application-Hotline
telephone/fax: +49 1803 66 67 89 / +49 4053 99 01 25
E-mail support@eppendorf.com

Importer Eppendorf North America, Inc.
Address 102 Motor Parkway
Postal Code Hauppauge, NY 11788-5178, USA
Phone +1 800 645 3050
FAX +1 516 334 7506
E-mail info@eppendorf.com

Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids Category 2

Label elements

Symbols/Pictograms



Signal word Danger
Hazard Statements Highly flammable liquid and vapor
Precautionary Statements

Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating/ lighting/ equipment Use only non-sparking tools Take precautionary measures against static discharge
Response	Wear protective gloves/protective clothing/eye protection/face protection In case of fire: Use alcohol resistant foam, extinguishing powder, carbon dioxide (co2), water spray (fog) to extinguish. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container to industrial incineration plant.

Hazards not otherwise classified (HNOC)

No information available.

Unknown acute toxicity

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical nature</u>	Mixture
<u>Chemical characterization</u>	solution with ethanol
<u>Hazardous ingredients</u>	

Chemical Name	CAS No	Weight-%
Ethanol	64-17-5	55-75

4. FIRST AID MEASURES**Description of first aid measures**

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.
Skin Contact	Wash off immediately with soap and plenty of water. Don't use solvents.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Do NOT induce vomiting. Rinse immediately with plenty of water and seek medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Extinguishing media**

Suitable extinguishing media	Alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO ₂). Water spray (fog).
Unsuitable extinguishing media	High volume water jet.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO₂).

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out. Evacuate personnel to safe areas.

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

Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Avoid contact with eyes and skin. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

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

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Remove contaminated clothing and shoes. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Take precautionary measures against static discharges. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Wash thoroughly after handling. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with local regulations. Keep away from food, drink and animal feeding stuffs. Incompatible with oxidizing agents. Storage at 18 -25°C
Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Denmark	European Union
Ethanol (CAS #: 64-17-5)	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Ethanol (CAS #: 64-17-5)	TWA: 1000 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m ³ Skin	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Ethanol (CAS #: 64-17-5)	TWA: 1900 mg/m ³	TWA: 1000 ppm	STEL: 1000 ppm STEL: 1910 mg/m ³ TWA: 1000 ppm TWA: 1910 mg/m ³	STEL: 1000 ppm STEL: 1920 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³	Skin STEL: 1900 mg/m ³ TWA: 260 mg/m ³

Chemical Name	Norway	United Kingdom	Australia	Austria	Belgium
Ethanol (CAS #: 64-17-5)	TWA: 500 ppm TWA: 950 mg/m ³ STEL: 500 ppm STEL: 950 mg/m ³	STEL: 3000 ppm STEL: 5760 mg/m ³ TWA: 1000 ppm TWA: 1920 mg/m ³	1000 ppm 1880 mg/m ³	STEL 2000 ppm STEL 3800 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	-

Appropriate engineering controls

Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.
Hand Protection	Wear protective gloves.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance	Liquid
Color	Colorless
Odor	Alcohol-like
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	20 °C
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Density	Not determined
Solubility in water	Miscible
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

Other information

No information available

10. STABILITY AND REACTIVITY**Reactivity**

No known effects under normal use conditions.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

No information available.

Incompatible materials

Oxidizing agent.

Hazardous Decomposition Products

None under normal use conditions

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin Contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.

Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol (CAS #: 64-17-5)	Rat - 10,470 mg/kg =6200 mg/kg bodyweight (Rat) Manufacturer	Rabbit - 15,800 mg/kg	Rat - 4 h - 30,000 mg/l

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol (CAS #: 64-17-5)	A3	Group 1	Known	X

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Ethanol (CAS #: 64-17-5)	275 mg/L/72 h <i>Chlorella vulgaris</i>	14200 mg/l/96h <i>Pimephales promelas</i>	5012 mg/L/48h <i>Daphnia magna</i> > 100 mg/l/24h(<i>Daphnia magna</i>) Literature value

Persistence and degradability

No information available.

Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
Ethanol (CAS #: 64-17-5)	-0.32

Mobility in soil

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.
 Contaminated packaging Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No. 1170
 UN Proper shipping name Ethanol solutions
 Hazard Class 3
 Packing Group II
 Special precautions No information available
 Marine pollutant Not marine pollutant

15. REGULATORY INFORMATION

International Inventories

Component	AICS	DSL/NDL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	TSCA
Ethanol 64-17-5	X	X	X	X	X	X	X	X

"-" Not Listed

"X" Listed

US Federal Regulations

SARA 313

Not applicable

SARA 311/312 Hazard Categories

Not applicable

CWA (Clean Water Act)

Not applicable

CERCLA

Not applicable

US State Regulations

California Proposition 65

Chemical Name	California Proposition 65

Ethanol - 64-17-5	Carcinogen Developmental
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U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol 64-17-5	X	X	X

16. OTHER INFORMATION

Revision Note

Issue Date 11-Aug-2016
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 Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

- TWA** - TWA (time-weighted average)
- STEL** - STEL (Short Term Exposure Limit)
- Ceiling** - Maximum limit value
- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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