

Printing date 01/11/2016

Reviewed on 01/11/2016

1: Identification

· Product identifier

Trade name: ISE BASELINE SOLUTION

- · Article number: ISBA-0850S.
- · Synonyms ISE BASELINE SOLUTION ENVOY
- Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture
- Reagent for IN VITRO diagnostic
- Product included in kit(s)
- Kit composed of one reagent : 55381.

Details of the supplier of the safety data sheet Manufacturer/Supplier: ELITech Clinical Systems SAS Zone Industrielle 61500 Sées • France Tel : +33 (0)2 33 81 21 00 Fax : +33 (0)2 33 28 77 51

www.elitechgroup.com

- MSDS.ECS-SAS@elitechgroup.com
- · Information department: Product safety department
- Emergency telephone number: Contact your distributor or poison control center in your country.

2: Hazard(s) identification

Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008



Repr. 1B H360FD May damage fertility. May damage the unborn child. STOT SE 2 H371 May cause damage to organs.

May cause damage to organs through prolonged or repeated exposure. STOT RE 2 H373



Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Skin Irrit. 2 H315 Causes skin irritation Eye Irrit. 2

H319 Causes serious eye irritation.

· Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labeled according to the CLP regulation. · Hazard pictograms



- · Signal word Danger
- · Hazard-determining components of labeling: tetramethylammonium hydroxide boric acid Hazard statements Harmful if swallowed or in contact with skin. Causes skin irritation Causes serious eye irritation. May damage fertility. May damage the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Precautionary statements Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapours/spray. IF exposed or concerned: Call a POISON CENTER/doctor. Get medical advice/attention if you feel unwell.
- Take off contaminated clothing and wash it before reuse.
- Additional information: Restricted to professional users.

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• Chemical cl • Description: Mixture of s Aqueous sol	ubstances.	
· Dangerous		
10043-35-3	boric acid	2.5-10%
	tetramethylammonium hydroxide Acute Tox. 2, H300; Acute Tox. 1, H310; STOT SE 1, H370; STOT RE 1, H372; Skin Corr. 1B, H314; Aquatic Chronic 2, H411	≤ 2.5%

4: First-aid measures

Description of first aid measures

General information:

Take off contaminated clothing and wash it before reuse.

- IF exposed or concerned: Call a POISON CENTER/doctor.
- Get medical advice/attention if you feel unwell.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- Show this safety data sheet to the doctor in attendance.
- After inhalation:
- Supply fresh air.

Move out of dangerous area.

If required, provide artificial respiration.

IF exposed or concerned: Call a POISON CENTER/doctor.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

IF exposed or concerned: Call a POISON CENTER/doctor.

After eye contact:

Protect unharmed eye.

Remove contact lenses, if present and easy to do.

Rinse opened eye for several minutes under running water.

IF exposed or concerned: Call a POISON CENTER/doctor.

After swallowing:

Never give anything by mouth to an unconscious person. Rinse out mouth.

Seek immediate advice from a doctor or a poison control center.

Information for doctor:

Most important symptoms and effects, both acute and delayed

May damage fertility. May damage the unborn child.

May cause damage to organs.

May cause damage to organs through prolonged or repeated exposure.

· Indication of any immediate medical attention and special treatment needed Data not available

5: Fire-fighting measures

· Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture

Formation of hazardous vapours/gases is possible during heating or in case of fire.

Boron oxides

Carbon oxides (COx)

Nitrogen oxides (NOx)

Advice for firefighters

Protective equipment: As in any fire, wear a respiratory protective device, and full protective gear.

6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away

Ensure adequate ventilation

Pregnant women should strictly avoid inhalation and contact with the product.

Obtain special instructions before use.

Avoid physical contact with material.

Do not breathe mist/vapours/spray.

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Avoid formation of gas/mist/vapours.

Environmental precautions: Prevent seepage into sewage system, workpits and cellars. **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Clean the affected area carefully.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7: Handling and storage

Handling:

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Pregnant women should strictly avoid inhalation and contact with the product.

Obtain special instructions before use.

Avoid physical contact with material.

Do not breathe mist/vapours/spray.

Avoid formation of vapour / mist / spray.

Observe the warnings on the label.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Unsuitable material for receptacle: aluminium.

- · Information about storage in one common storage facility: Store away from incompatible materials (see section 10).
- Further information about storage conditions:
- Store receptacle in a well ventilated area.

Keep receptacle tightly sealed.

Protect the product from light. Avoid exposure to heat.

Recommended storage temperature: 10-30 °C

Specific end use(s) No further relevant information available.

8: Exposure controls/personal protection

• Additional information about design of technical systems: Eyewash fountain and safety shower in the area of storage and use.

Control parameters

Components with limit values that require monitoring at the workplace:

10043-35-3 boric acid (2.5-10%)

TLV (USA) Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction

Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and at the end of work.

Take off contaminated clothing and wash before reuse.

Pregnant women should strictly avoid inhalation and contact with the product.

Obtain special instructions before use.

Avoid physical contact with material.

Do not breathe mist/vapours/spray.

Avoid formation of gas/mist/vapours.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. *Breathing equipment:*

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Suitable respiratory protective device recommended.

Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Use equipement tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• *Penetration time of glove material* The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • *Eye protection:*



Wear face shield/eye protection.

Use equipment tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). *Body protection:* Protective work clothing

9: Physical and chemical properties

Information on basic physical and chemical properties			
General Information			
· Appearance:			
Form:	Liquid		
Color:	Colorless		
· Odor:	Odorless		
· Odor threshold:	Not determined.		
• <i>pH-value at 20</i> • <i>C</i> (68 • <i>F</i>):	8		
· Change in condition			
Melting point/Melting range:	Not applicable		
Boiling point/Boiling range:	Not determined.		
Solidification point:	Not determined		
Flash point:	Not applicable.		
Flammability (solid, gaseous):	Not applicable.		
Ignition temperature:	Not determined		
· Decomposition temperature:	Not determined.		
Auto igniting:	Product is not selfigniting.		
Danger of explosion:	Product does not present an explosion hazard.		
· Vapor pressure:	Not determined.		
Density:			
Relative density at 20 °C (68 °F)	1.018 g/cm ³ (8.495 lbs/gal)		
Vapor density	Not determined.		
Evaporation rate	Not determined		
Solubility in / Miscibility with			
Water:	Miscible		
Partition coefficient (n-octanol/wate	· Partition coefficient (n-octanol/water): Not determined		
· Viscosity:			
Dynamic:	Not determined.		
Other information	No further relevant information available.		

10: Stability and reactivity

• Reactivity See § Possibility of hazardous reactions.

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Formation of hazardous vapours/gaz is possible during heating.

· Possibility of hazardous reactions No dangerous reactions if used according to specifications.

Conditions to avoid No further relevant information available.

Incompatible materials:

Strong oxidizing agents, strong acids

Acid anhydrides

Metallic aluminium

Hazardous decomposition products:

Dangerous decomposition products may be formed

Nitrogen oxides (NOx)

Carbon oxides (COx)

Boron oxides

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· Additional information: Stable at the recommended storage temperature and if protected from light. Avoid exposure to heat.

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· Information on toxicological effects

• Acute toxicity:

Harmful if swallowed or in contact with skin.

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimates) Oral LD50 332 mg/kg (rat) Dermal LD50 1077 mg/kg (-) Inhalative LC50/4 h 31.6 mg/l (rat)

10043-35-3 boric acid

Oral		2660 mg/kg (rat)			
	LD50	>2000 mg/kg (rabbit)			
Inhalative	LC50/4 h	>2.03 mg/l (rat)			
75-59-2 tetramethylammonium hydroxide					
Oral LD50 7.5 mg/kg (rat)					

7.5 mg/kg (rat) LD50 25 mg/kg (rat)

Dermal

· Primary irritant effect:

• on the skin: Causes skin irritation.

• on the eye:

Causes serious eye irritation.

· Sensitization: Based on available data, the classification criteria are not met.

· Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer) None of the ingredient is listed.

·NTP (National Toxicology Program) None of the ingredient is listed.

 \cdot CMR effects

· Reproductive Effects: May damage fertility or the unborn child.

· Target organs:

May cause damage to organs.

May cause damage to organs through prolonged or repeated exposure .

12: Ecological information

 Toxicity
• Aquatic toxicity:

Informatio	on on components:
	-3 boric acid
EC50/48h	133 mg/l (Daphnia) ECOTOX Database
LC50/96h	50-100 mg/l (Onchorhyncus mykiss) ECOTOX database
	279 mg/l (Ptychocheilus lucius)
LC0/96h	> 1021 mg/l (Lepomis macrochirus)
LC50/21d	53.2 mg/L (Daphnia)
75-59-2 te	etramethylammonium hydroxide
EC50/48h	3 mg/l (Daphnia)
LC50/96h	100 mg/l (Pimephales promelas)
EC50/72h	96 mg/l (Pseudokirchneriella subcapitata)
	ce and degradability Data not available
	in environmental systems:
	<i>nulative potential</i> Data not available <i>n soil</i> Data not available
•	al ecological information:
· General n	
At presen	t there are no ecotoxicological assessments.
	ard class 1 (Self-assessment): slightly hazardous for water
	ow undiluted product or large quantities of it to reach ground water, water course or sewage system.
	procedures have to be respected, see Section 13.
· Other ad	verse effects No further relevant information available.

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13: Disposal considerations

Waste treatment methods

Recommendation: Disposal must be made according to official regulations.

· Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

• *Primary packaging:* Plastic vial (composed of polyethylene high density)

[·] UN-Number · <i>DOT, ADR, ADN, IMDG, IATA</i>	Not applicable	
· UN proper shipping name · <i>DOT, ADR, ADN, IMDG, IATA</i>	-	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	-	
· Packing group · <i>DOT, ADR, IMDG, IATA</i>	-	
Environmental hazards: Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex II of MARPO Code	DL73/78 and the IBC Not applicable.	
· UN "Model Regulation":	_	

15: Regulatory information

· SARA

Section 302/304 (40CFR355.30 / 40CFR355.40): None of the ingredients is listed.

- · Section 313 (Specific toxic chemical listings): Not regulated.
- TSCA (Toxic Substances Control Act): This product is regulated by the Food and Drug Administration; it is exempt from requirements of TSCA.

· Proposition 65

· Chemicals known to cause cancer: None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.

- · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
- · Chemicals known to cause developmental toxicity: None of the ingredient is listed.

Carcinogenic categories

· EPA (Environmental Protection Agency)

10043-35-3 boric acid

· TLV (Threshold Limit Value established by ACGIH)

10043-35-3 boric acid

NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredient is listed.

OSHA-Ca (Occupational Safety & Health Administration) None of the ingredient is listed.

U.S. State Regulations:

· PA-RTK None of the ingredient is listed.

· NJ-RTK

75-59-2 tetramethylammonium hydroxide

• MA-RTK None of the ingredient is listed.

RI-RTK None of the ingredient is listed.

US Federal Regulation This mixture is a component of an FDA-regulated IN VITRO diagnostic medical device.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

I (oral)

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USA

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H411 Toxic to aquatic life with long lasting effects.	
· Department issuing MSDS: Product safety department	
Contact: Product safety department	
Abbreviations and acronyms:	
SVHC : Substances of Very High Concern	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
ACGIH: American Conference of Governmental Industrial Hygienists	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent	
LDS0: Lethal dose; 50 percent	
NOEC: No Observed Effect Concentration	
EC50: Effective concentration, 50 percent	
ICS0 : Inhibitory concentration, 50 percent.	
Acute Tox. 2: Acute toxicity, Hazard Category 2	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Acute Tox. 1: Acute toxicity, Hazard Category 1	
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2	
Repr. 1B: Reproductive toxicity, Hazard Category 1B	
STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1	
STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1	
STOT RE 1: Specific target organitoxicity - Repeated exposure, Hazard Category 1 STOT RE 2: Specific target organitoxicity - Repeated exposure, Hazard Category 2	
Aquatic Chronic 2: Specific larged organ to Review Property in Early Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
Aquare envine 2. Inaziero de aquare environnen. Cinone fazzie, cuegor 2	

• * Data compared to the previous version altered.