

Printing date 10/02/2015 Reviewed on 10/02/2015

1: Identification

- · Product identifier
- · Trade name: ISE DILUENT
- · Article number: ISDI-5XXX
- · Synonyms ISE DILUENT DIL
- · 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 : ISDI-0250
- · 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



Acute Tox. 4 H302 Harmful if swallowed.

- · 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 Warning
- · Hazard-determining components of labeling:
- tetramethylammonium hydroxide
- · Hazard statements
- Harmful if swallowed.
- $\cdot \textit{Precautionary statements}$

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

Rinse mouth.

3: Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture of substances.

Aqueous solution.

· Dangerous components:

Dungerous	omponents.	
· CAS NO.	Description %	
10043-35-3		≤ 2.5%
	♠ Repr. 1B, H360FD	
	tetramethylammonium hydroxide	< 1.0%
	♦ Acute Tox. 2, H300; Acute Tox. 1, H310; ♦ STOT SE 1, H370; STOT RE 1, H372; ♦ Skin Corr. 1B, H314	

4: First-aid measures

- \cdot Description of first aid measures
- · General information:

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.

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Safety Data Sheet acc. to OSHA HCS

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Move out of dangerous area.

If required, provide artificial respiration.

If symptoms appear, seek medical advice.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If symptoms appear, seek medical advice.

· 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 symptoms appear, seek medical advice.

· After swallowing:

Never give anything by mouth to an unconscious person.

Rinse out mouth.

Seek advice from a doctor or a poison control center.

- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed Data not available.
- · 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.

Carbon oxides (COx)

Nitrogen oxides (NOx)

Boron oxides

- · 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

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Avoid physical contact with material.

Avoid formation of gas/mist/vapours.

Avoid breathing gas/mist/vapours.

- · Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- \cdot 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.

Avoid physical contact with material.

Avoid formation of gas/mist/vapours.

Avoid breathing gas/mist/vapours. 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 container tightly closed.

Protect the product from light. Avoid exposure to heat.

· Recommended storage temperature: 10-30 °C

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

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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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

10043-35-3 boric acid (≤2.5%)

TLV 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.

Avoid physical contact with material.

Avoid formation of gas/mist/vapours.

Avoid breathing 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.

Under normal conditions, the use of these products should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

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

Use equipment 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:

Safety glasses

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:	Fluid				
Color:	Colorless				
· Odor:	Odorless				
· Odour threshold:	Not determined.				
· pH-value at 20 °C (68 °F):	8.7				
· Change in condition					
Melting point/Melting range:	Not applicable.				
Boiling point/Boiling range:	Not determined. 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.				

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(Contd. of page 3) Not determined. · Vapor pressure: · Density: Relative density at 20 °C (68 °F) 1.002 g/cm3 (8.362 lbs/gal) Vapour density Not determined. Evaporation rate Not determined. · Solubility in / Miscibility with Water. Miscible · 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.

Carbon oxides (COx)

Nitrogen oxides (NOx)

Boron oxides

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

11: Toxicological information

- $\cdot \ \, \textbf{Information on toxicological effects}$
- · Acute toxicity:

Harmful if	Harmful if swallowed.						
· LD/LC50 1	· LD/LC50 values that are relevant for classification:						
ATE (Acu	ATE (Acute Toxicity Estimates)						
Oral	LD50	1042 mg/kg (rat)					
Dermal	LD50	3473 mg/kg (rat)					
Inhalative	LC50/4 h	116 mg/l (rat)					
	10043-35-3 boric acid						
10043-35-	3 boric aci	d					
		id 2660 mg/kg (rat)					
Oral	LD50						
Oral Dermal	LD50 LD50	2660 mg/kg (rat)					
Oral Dermal Inhalative	LD50 LD50 LC50/4 h	2660 mg/kg (rat) >2000 mg/kg (rabbit)					

- · Primary irritant effect:
- on the skin:

Dermal

May cause irritating effect.

LD50

· on the eye:

May cause irritating effect.

· Inhalation:

May be harmful by inhalation.

May cause irritating effect.

- · Ingestion: Harmful if swallowed.
- · Sensitization: Based on available data, the classification criteria are not met.
- $\cdot \textit{Additional toxicological information:}$
- · 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.

25 mg/kg (rat)

- IIS

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12: Ecological information

- · Toxicity
- · Aquatic toxicity:

Information on components:

10043-35	10043-35-3 boric acid		
EC50/48h	133 mg/l (Daphnia)		
	ECOTOX Database		

LC0/96h > 1021 mg/l (Lepomis macrochirus)

LC50/21d 53.2 mg/L (Daphnia)

LC50/96h 50-100 mg/l (Onchorhyncus mykiss)

ECOTOX database

279 mg/l (Ptychocheilus lucius)

75-59-2 tetramethylammonium hydroxide

EC50/48h 3 mg/l (Daphnia)

EC50/72h 96 mg/l (Pseudokirchneriella subcapitata)

LC50/96h 100 mg/l (Pimephales promelas)

- · Persistence and degradability Data not available.
- · Behavior in environmental systems:
- · Bioaccumulative potential Data not available.
- · Mobility in soil Data not available.
- · Additional ecological information:
- · General notes:

At present there are no ecotoxicological assessments.

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Disposal procedures have to be respected, see Section 13.

· Other adverse effects No further relevant information available.

13: Disposal considerations

14: Transport information

- · Waste treatment methods
- $\cdot \textit{Recommendation:}$ 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 · DOT, ADR, ADN, IMDG, IATA	Not applicable.
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	-
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	-
· Packing group · DOT, ADR, IMDG, IATA	-
· Environmental hazards: · Marine pollutant:	No

Not applicable.

Not applicable.

15: Regulatory information

· Special precautions for user

· UN "Model Regulation":

· SARA

IBC Code

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

Transport in bulk according to Annex II of MARPOL73/78 and the

- · 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.

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· 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

A4

I (oral)

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- · 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 None of the ingredient is listed.
- · 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.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

- · Department issuing SDS: 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

GHS: Globally Harmonised System of Classification and Labelling of Chemical 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 LD50: Lethal dose, 50 percent NOEC : No Observed Effect Concentration

EC50: Effective concentration, 50 percent IC50: 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

Repr. 1B: Reproductive toxicity, Hazard Category 1B STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

· * Data compared to the previous version altered.