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MATERIAL SAFETY DATA SHEET according to the Hazard Communication Standard (29 CFR 1910.1200)

	Date of issue: 08/01/2012	Version 1.0
SECTION 1. Identification		
Product identifier		
Product number	140006	
Product name	Extran® AP17 liquid, alkaline concentrate	
Relevant identified uses of t	he substance or mixture and uses advised against	
Identified uses	Laboratory cleaning	
Details of the supplier of the	safety data sheet	
Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01821 United States of America SDS Phone Support: +1-978-715-1335 General Inquiries: +1-978-751-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	,
	e-mail: mm_sds@merckgroup.com	
Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week	

SECTION 2. Hazards identification

GHS Classification

Corrosive to Metals, Category 1, H290 Skin corrosion, Category 1A, H314 For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word Danger

Hazard StatementsH290 May be corrosive to metals.H314 Causes severe skin burns and eye damage.

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Precautionary Statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

OSHA Hazards

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution of inorganic and organic compounds.

Hazardous ingredients

Chemical Name (Concentration) CAS-No. sodium hydroxide (>= 5 % - < 10 %) 1310-73-2

SECTION 4. First aid measures

Description of first-aid measures

Inhalation After inhalation: fresh air. Call in physician.

Skin contact

After skin contact: wash off with plenty of water. Immediately remove contaminated clothing. If available swab with polyethylene glycol 400. Call a physician immediately.

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation and corrosion, irritant effects, Cough, Shortness of breath, collapse, death Risk of blindness!

Indication of any immediate medical attention and special treatment needed No information available.

SECTION 5. Fire-fighting measures Extinguishing media

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Suitable extinguishing media Water, Foam, Carbon dioxide (CO2), Dry powder

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Preparation with combustible ingredients. Ambient fire may liberate hazardous vapors.

Advice for firefighters

Special protective equipment for fire-fighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® OH⁻, Merck Art. No. 101596). Dispose of properly. Clean up affected area.

SECTION 7. Handling and storage

Precautions for safe handling Observe label precautions.

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Conditions for safe storage, including any incompatibilities

Tightly closed.

Store at +15°C to +25°C (+59°F to +77°F).

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SECTION 8. Exposure controls/personal protection

Exposure limit(s)	
Inaredients	

Basis	Value	Threshold limits	Remarks
<i>sodium hydroxi</i> ACGIH	<i>ide 1310-73-2</i> Ceiling Limit Value:	2 mg/m³	
NIOSH/GUIDE	Ceiling Limit Value and Time Period (if	2 mg/m³	
OSHA_TRANS	specified): PEL:	2 mg/m³	
Z1A	Ceiling Limit Value:	2 mg/m³	

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection Tightly fitting safety goggles

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Recommended:

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

splash contact:

Glove material:	
Glove thickness:	
Break through time:	

Nitrile rubber 0.11 mm > 480 min

Other protective equipment: Protective suit

Respiratory protection required when vapors/aerosols are generated.

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Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SE	CTION 9. Physical and chemical p	roperties
	Physical state	liquid
	Color	transparent to light yellow
	Odor	odorless
	Odor Threshold	No information available.
	рН	13 at 68 °F (20 °C)
	Melting point	No information available.
	Boiling point	No information available.
	Flash point	No information available.
	Evaporation rate	No information available.
	Flammability (solid, gas)	No information available.
	Lower explosion limit	No information available.
	Upper explosion limit	No information available.
	Vapor pressure	No information available.
	Relative vapor density	No information available.
	Relative density	1.294 g/cm³ at 68 °F (20 °C)
	Water solubility	No information available.
	Partition coefficient: n- octanol/water	No information available.
	Autoignition temperature	No information available.
	Decomposition temperature	No information available.
	Viscosity, dynamic	No information available.

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SECTION 10. Stability and reactivity

Reactivity

See below

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions

unsuitable working materials:

Metals, metal alloys, brass, Aluminum, Zinc, Tin

Conditions to avoid

no information available

Incompatible materials

Metals, Light metals Hydrogen Violent reactions possible with: Nitriles, ammonium compounds, Cyanides, magnesium, organic nitro compounds, organic combustible substances, phenols, oxidizable substances, powdered alkaline earth metals, acids

Hazardous decomposition products

no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure Eye contact, Skin contact

Target Organs Eyes Skin Respiratory system

Acute oral toxicity

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Skin irritation Necrosis

Eye irritation Causes severe burns.

Necrosis Risk of blindness!

Specific target organ systemic toxicity - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

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	<i>nic toxicity - repeated exposure</i> not classified as specific target organ toxicant, repeated exposure.	
<i>Aspiration hazard</i> Regarding the available da	ta the classification criteria are not fulfilled.	
Carcinogenicity		
IARC	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as probable, possible or confirmed	
	human carcinogen by IARC.	
OSHA	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a carcinogen or potential	
	carcinogen by OSHA.	
NTP	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a known or anticipated carcinogen	
	by NTP.	
ACGIH	No ingredient of this product present at levels greater than or	
	equal to 0.1% is identified as a carcinogen or potential	
	carcinogen by ACGIH.	
Further toxicological data: Systemic effects: collapse, death Further data: Other dangerous properties	icity of this product are not available. can not be excluded. good industrial hygiene and safety practice.	

SECTION 12. Ecological information

Ecotoxicity

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No information available.

Persistence and degradability No information available.

Bioaccumulative potential

No information available.

Mobility in soil No information available.

Other adverse effects

Additional ecological information We have no quantitative data concerning the ecological effects of this product. Further information on ecology Discharge into the environment must be avoided.

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SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information Land transport (DOT)	n
UN number	UN 1824
Proper shipping name	SODIUM HYDROXIDE SOLUTION
Class	8
Packing group	II
Environmentally hazardous	
Air transport (IATA)	
UN number	UN 1824
Proper shipping name	SODIUM HYDROXIDE SOLUTION
Class	8
Packing group	II
Environmentally hazardous	
Special precautions for user	no
Sea transport (IMDG)	
UN number	UN 1824
Proper shipping name	SODIUM HYDROXIDE SOLUTION
Class	8
Packing group	II
Environmentally hazardous	

Product name Extran® AP17 liquid, alkaline concentrate Special precautions for user yes EmS F-A S-B SECTION 15. Regulatory information United States of America OSHA Hazards Target organ effects Corrosive to skin Corrosive to skin Corrosive to eyes Corrosive by inhalation. This information is based on 29 CFR 1910.1200 criteria prior to adoption of the GHS, and may deviate from the GHS information on the label and in section 2. SRAR 311/312 Hazards Acute Health Hazard Cheronic Health Hazard Clean Water Act The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 1 <i>Ingredients</i> sodium hydroxide US State Regulations Massachusetts Right To Know <i>Ingredients</i> sodium hydroxide Pennsylvania Right To Know <i>Ingredients</i> water trisodium N,N-bis(carboxymethyl)-DL-alanine sodium hydroxide	Version 1.0
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<i>Ingredients</i> water	
water	
trisodium N.N-bis(carboxymethyl)-DL-alanine	
sodium hydroxide	
California Prop 65 Components	
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.	؛ ٢ ,
Notification status	

Product number Product name	140006 Extran® AP17 liquid, alkaline concentrate	Version 1.0
TSCA:	On TSCA Inventory	
DSL:	All components of this product are on the Canadian DSL list.	

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.

Key or legend to abbreviations and acronyms used in the safety data sheet Used abbreviations and acronyms can be looked up at www.wikipedia.org.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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