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Revision Number 4

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

Product Name Amp Buffer Concentrate

Product Code(s) 0136

Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Recommended Use Zwitterionic buffer for cell culture, enzyme assay, or electrophoretic application

Synonyms 2-AMINODIMETHYLETHANOL * BETA-AMINOISOBUTANOL *
2-AMINO-2-METHYLPROPANOL

Company
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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Corrosion/Irritation 1B Flammable Liquid 4

Signal Word Danger



Hazard Statements H314 - Causes severe skin burns and eye damage H227 - Combustible liquid

Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308 + P313 - IF exposed or concerned: Get medical attention/advice

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Aminomethyl propanol	EEC No. 204-709-8	Not available	124-68-5	85-95	Xi; R36/38 R52-53
Propanol, 2-(methylamino)-2-methyl-	-	Not available	27646-80-6	1-10	-

4. FIRST AID MEASURES

Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician.

Inhalation

Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion

Clean mouth with water and afterwards drink plenty of water. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties

combustible liquid.

Flash Point

81 °C

Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products

Carbon oxides, Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Mechanical Impact

Not sensitive.

Sensitivity to Static Discharge

Not sensitive.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Keep away from sources of ignition-no smoking.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.
Incompatible Products	Strong oxidizing agents. Acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	Showers Eyewash stations Ventilation systems.
Personal Protective Equipment	
Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear,colorless
Odor	Amine-like
Odor Threshold	No information available
Decomposition Temperature °C	No information available
Freezing Point	No information available
Initial Boiling Point	No information available
Physical State	Liquid
pH	pH (in aqueous solution) 11.3
Flash Point	81 °C
Flammable Properties	combustible liquid.
Autoignition Temperature	No data available
Boiling Point/Range	100-165 °C
Melting Point/Range	-2 °C
Flammability Limits in Air	Upper No data available Lower No data available
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	No data available
MMHG @ 37.8 C	No data available
Vapor Density	No data available
Specific Gravity	.934
Density	3.0
Solubility	Water-soluble
Water Solubility	Miscible in water
Partition Coefficient (n-octanol/water)	No data available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Strong oxidizing agents. Acids.
Conditions to Avoid	Protect from heat.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx).
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Corrosive, causes burns. May be harmful if swallowed. May be harmful by inhalation.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aminomethyl propanol	2900 mg/kg (Rat)	2000 mg/kg (Rabbit)	

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects Liver.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Aminomethyl propanol	EC50 = 520 mg/L 72 h	LC50= 190 mg/L Lepomis macrochirus 96 h		EC50 = 193 mg/L 48 h

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Aminomethyl propanol	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Propanol, 2-(methylamino)-2-methyl-	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II	
Aminomethyl propanol 124-68-5 (85-95)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Propanol, 2-(methylamino)-2-methyl- 27646-80-6 (1-10)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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International Inventories

TSCA	Does not Comply
EINECS/ELINCS	Does not Comply
ENCS	Complies
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	Does not Comply

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Aminomethyl propanol	X	X	X		

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class
B3 Combustible liquid
E Corrosive material



16. OTHER INFORMATION

Issuing Date 09-Jul-2009

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Revision Note
No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS