

SECTION 1: PRODUCT IDENTIFICATION

Product Name: E-100 Plus, Part B
Synonyms:
Product Number: One Quart: 50-E100P-1QB
 Three Quart: 50-E100P-3QB
 Five Gallon: 50-E100P-5GB
Company: Durável
Address: P.O. Box 1141, Davidson NC 28036
Business Phone: (704) 837-7991
Emergency Phone: Chemtrec US (800) 424-9300 CNN 874540
Date of Current Revision: June 15, 2021

SECTION 2: HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity – Oral	Category 3
Skin corrosion/irritation	Category 1B
Eye corrosion	Category 1
Reproductive toxicity	Category 2

EMERGENCY OVERVIEW: This product is a colorless to yellowish liquid.

Danger

Hazard Statements

H301: Toxic in contact with skin
 H314: Causes severe skin burns and eye damage
 H318: Causes serious eye damage
 H361: Suspected of damaging fertility or the unborn child



Appearance: Colorless to yellowish

Physical State: Liquid

Odor: Slight

Precautionary Statements – Prevention

P201: Obtain special instructions before use
 P202: Do not handle until all safety precautions have been read and understood

P260: Do not breathe dust/fume/gas/mist/vapors/spray
 P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P281: Use personal protective equipment as required
 P310: Immediately call a POISON CENTER or doctor/physician
 P321: Specific treatment, see supplemental first aid information.
 P330: Rinse mouth
 P363: Wash contaminated clothing before reuse
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
 P308+P313: IF exposed or concerned: Get medical advice/attention
 P405: Store locked up
 P501 Dispose of contents/container in accordance with local/ regional/ national/ international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

Precautionary Statements

Unnecessary exposure to any chemical should be avoided. NOTICE--Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after applicable limits. Follow respirator manufacturer's directions for respirator use.

Hazards not otherwise classified (HNOC)

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight - %	Trade Secret
Propylene glycol diamine, 2-amino-, diether with Propylene	9046-10-0	70 – 90	*
Phenol, 4-nonyl-, branched	84852-15-3	10 – 30	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: FIRST-AID MEASURES

Description of First Aid Measures

General Advice	Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance. First responders should wear gloves and protection.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CONTROL CENTER or seek medical attention.
Skin Contact	Immediately call a POISON CONTROL CENTER or seek medical attention. Avoid direct contact and wear chemical protective clothing, if necessary. Immediately take off all contaminated clothing. Wash with plenty of water/ soap and rinse thoroughly until medical aid is available. Gently blot or brush away excess product. Wash contaminated clothing before re-use or discard.
Inhalation	Immediately call a POISON CONTROL CENTER or seek medical attention. Take precautions to ensure your own safety. Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing has stopped, trained personnel should begin rescue breathing. Avoid mouth-to-mouth contact by using a barrier device. If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR).
Ingestion	Immediately call a POISON CONTROL CENTER or seek medical attention. Rinse mouth and do not induce vomiting. If breathing has stopped, trained personnel should begin rescue breathing. Avoid mouth-to-mouth contact by using supplied air/ barrier device. If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR).
Note to Physicians	Treat symptomatically. For additional information, see Safety Data Sheet.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical fire extinguisher, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media	Do not use water stream, as this may spread fire.
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Specific hazards arising from the chemical

Formation of toxic gases is possible during heating or in case of fire. Check flammability in section 2 of this sheet. Mixture in sealed and heated containers may cause explosion hazard .

Hazardous combustion products

Carbon oxides. Metal oxide(s). Nitrogen oxides. Can form explosive vapor-air mixtures. Vapors are heavier than air and may spread along floors . Vapors may travel considerable distance to source of ignition and flash back.

Explosion Data**Sensitivity to Mechanical Impact**

Not available

Sensitivity to Static Discharge

Not available

Protective equipment and precautions for firefighters

Clear fire area of unprotected personnel. Containers that are exposed to intense heat should be cooled with water. Avoid spreading burning liquid with the water used for cooling purposes . Do not enter fire area without protective gear. Fight fire from safe distance or a protected location. Wear self-contained respiratory protective device. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources. Wear protective clothing. Keep from contacting skin or eyes. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. If any equipment is necessary, ensure that it is non-sparking and electrically-protected.

Environmental Precautions**Environmental precautions**

Do not allow product to reach sewage system or any water source. In case of seepage into the ground inform responsible authorities Prevent from spreading (e.g. by damming-in or oil barriers). Keep contaminated washing water and dispose of appropriately.

Methods and material for containment and cleaning up**Methods for containment and clean up**

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste. Do not flush with water or aqueous cleansing agents. Send for recovery or disposal in suitable receptacles according to local, state and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice for safe handling

Apply proper ventilation, possibly combined with local exhaust. Do not eat, smoke or drink during use. For personal protection see Section 8. Keep away from sources of ignition. Keep material out of reach of children. Use only explosion proof equipment. Wash thoroughly after handling.

Keep ignition sources away - Do not smoke. Protect against electrostatic charges by bonding and grounding product containers before and during material transfers. Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep away from sources of ignition - no smoking. Store in a cool, well ventilated place. Keep in original, closed packaging. Comply with governmental regulations. Keep container tightly closed. Store out of direct sunlight, between 40 and 90F.

FOR INDUSTRIAL USE ONLY!

SECTION 8: EXPOSURE CONTROLS – PERSONAL PROTECTION

Control parameters

Chemical Name	CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Propylene glycol diamine, 2-amino-, diether with Propylene	9046-10-0	Not Established	3 mg/m3 (respirable fraction)	Not Established
Phenol, 4-nonyl-, branched	84852-15-3	Not Established	Not Established	Not Established

Appropriate engineering controls

Engineering Controls

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910 .94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits .

Individual protection measures, such as personal protective equipment

Eye/face protection	Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes . (Consult your safety equipment supplier.) Eyewash stations and safety showers should be readily available in use and handling areas. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.
Skin and body protection	Chemically resistance gloves, apron and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material. Protective gloves are required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)
Respiratory protection	In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) airline type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Solvent
Appearance	Colorless to yellowish	Odor Threshold	No data available
Color	Transparent Liquid – May have slight color due to performance additives		

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	Not Relevant	
Melting point/freezing point	Not Applicable	
Boiling point/Boiling range	Not Applicable	
Flash point	250° F	CC (closed cup)
Evaporation rate	Not Available	
Flammability (solid, gas)	Not Relevant	

Flammability Limit in Air	
Upper flammability limit:	No Data
Lower flammability limit:	No Data
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	.955 @ 70° F
Water solubility	Insoluble in water
Solubility in other solvents	Not Available
Partition coefficient	Not Available
Autoignition temperature	Not Available
Decomposition temperature	Not Available
Kinematic viscosity	Not Available
Dynamic viscosity	Not Available
Explosive properties	Not Available
Oxidizing properties	Not Available

Other Information

Softening point	Not Relevant
Molecular weight	Not Available
VOC Content (%)	0.0 g/L
Density	Not Available
Bulk Density	Not Available

SECTION 10: STABILITY AND REACTIVITY

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Incompatible materials

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition may form toxic materials; carbon dioxide, carbon monoxide, various hydrocarbons, etc.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Mixture Toxicity	Oral Toxicity LD50: 278mg/kg
Toxicity Components	
Phenol, 4-nonyl-, branched	Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit)

Carcinogenic Data NTP: None
 OSHA: None
 IARC: None

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic Toxicity No data on the product itself

Acute Toxicity to Fish – Components

Phenol, 4-nonyl-, 96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr
 branched LC50
 Lepomis macrochirus: 0.1351 mg/L [flow-through]
 48 Hr EC50 Daphnia magna: 0.14 mg/L
 96 Hr EC50 Pseudokirchneriella subcapitata: 0.36 - 0.48 mg/L
 [static]; 72 Hr
 EC50 Pseudokirchneriella subcapitata: 0.16 - 0.72 mg/L [static]; 72
 Hr EC50
 Desmodesmus subspicatus: 1.3 mg/L

Persistence and Degradability

No relevant information available

Bioaccumulative Potential Bioaccumulation

No relevant information available

Mobility in Soil

Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Relevant Information

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies.

SECTION 14: TRANSPORTATION INFORMATION

DOT

UN/ID no. 2735
Proper shipping name Polyetheramine, liquid, corrosive, n.o.s.
Hazard Class 8
Packing Group III

IATA

UN/ID no. 2735
Proper shipping name Polyetheramine, liquid, corrosive, n.o.s.
Hazard Class 8
Packing Group III

IMDG

UN/ID no. 2735
Proper shipping name Polyetheramine, liquid, corrosive, n.o.s.
Hazard Class 8
Packing Group III

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture. United States (USA)

SARA: Sections 302 and 313: None

Section 8(b): All ingredients are listed.

TSCA (Toxic Substances Control Act): None

Proposition 65 (California)

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

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

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canada

Canadian Domestic Substance List (DSL) All ingredients are listed

SECTION 16: OTHER INFORMATION

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 3 Flammability 1 Physical hazards 0 Personal Protection X

Issue Date August 3, 2020

Revision Date June 15, 2021

Revision Note None

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. 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. Durável assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Durável assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety precautions are followed.

END OF SAFETY DATA SHEET

*****NOTE: This document is incomplete pending NFPA and HMIS data**