

SECTION 1: PRODUCT IDENTIFICATION

Product Name:	E-100 Plus, Part A
Synonyms:	
Product Number:	Three Quart:50-E100P-3QA 2.25 Gallon: 50-E100P-9QA Five Gallon: 50-E100P-5GA
Company:	Durável
Address:	227 Crompton St., Charlotte NC 28273
Business Phone:	(704) 837-7991
Emergency Phone:	Chemtrec US (800) 424-9300 CNN 1014580
Date of Current Revision:	November 16, 2023

SECTION 2: HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

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

Skin corrosion/irritation	Category 1B
Eye corrosion	Category 1
Skin Sensitizer	Category 1
Reproductive Toxin	Category 2

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

Danger

Hazard Statements

- H314: Causes severe skin burns and eye damage
- H317: May cause an allergic skin reaction
- 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
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray
- P264: Wash thoroughly after handling.
- P272: Contaminated work clothing should not be allowed out of the workplace
- 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.
- P363: Wash contaminated clothing before reuse
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P302+P352: IF ON SKIN: Wash with soap and water
- 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
- P333+P313: If skin irritation or a rash occurs: 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.

Other Hazards

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.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No.	Weight - %	Trade Secret
Bisphenol-A epoxy resin (number average molecular weight < 700)	25068-38-6	70 - 80	*
Phenol, 4-nonyl-, branched	84852-15-3	20 – 30	*

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

Additional information: Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

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.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Ingestion	IF SWALLOWED: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Indication of any immediate medical attention and special treatment needed

Note to Physicians	Treat symptomatically. For additional information, see Safety Data Sheet.
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SECTION 5: FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Dry Chemical Fire Extinguisher, Alcohol Resistant Foam, Carbon Dioxide

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Formation of toxic gases is possible during heating or in case of fire. In a fire or if heated a pressure increase may occur and the container may burst.

Hazardous combustion products

Carbon oxides. Metal oxide(s).
Nitrogen oxides.

Explosion Data

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.

Sensitivity to Mechanical Impact

Not available

Sensitivity to Static Discharge

May be ignited by friction, heat, sparks or flames.

Protective equipment and precautions for firefighters

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. 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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste.

Methods for cleaning up

Ensure adequate ventilation. 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.

Conditions for safe storage, including any incompatibilities

Storage Conditions 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. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat. Keep from freezing. Store product above 50 degrees F/10 degrees C and below 95 degrees F/35 degrees C.

Incompatible Materials Keep away from strong oxidizing agents, strong alkalis, and strong acids.

FOR INDUSTRIAL USE ONLY!

SECTION 8: EXPOSURE CONTROLS – PERSONAL PROTECTION

Chemical Name	CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Bisphenol-A epoxy resin (number average molecular weight < 700)	25068-38-6	Not Established	Not Established	Not Established
Phenol, 4-nonyl-, branched	84852-15-3	Not Established	Not Established	Not Established

Additional information about design of technical facilities:

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 .

Control Parameters

Ingredients with limit values that require monitoring at the workplace:

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

Exposure Controls

Personal protective equipment:

General protective and hygienic measures:

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

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.

Protective Gloves:

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.)

Eye 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.

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.

Contaminated Gear:

Dispose of in accordance with official regulations.

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	302° F	CC (closed cup)
Evaporation rate	Not Available	
Flammability (solid, gas)	Not Relevant	
Flammability Limit in Air		
Upper flammability limit:	Not Applicable	
Lower flammability limit:	Not Applicable	
Vapor pressure	Not Applicable	
Vapor density	Not Available	
Relative density	1.11 @ 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**Reactivity**

Not Available

Chemical stability

Stable

Possibility of Hazardous Reactions

No data available

Conditions to avoid

Contact with incompatible materials

Incompatible materials

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 toxicological effects: Toxicity data is available for this product.

Acute Toxicity

Dermal Toxicity	LD 50	2,031 mg/kg	Rabbit
Oral Toxicity	LD 50	1,300 mg/kg	Rat

Primary irritant effect: Contact with this product can be irritating to exposed skin and eyes.

Sensitization: This product is considered a skin sensitizer.

Additional toxicological information: not considered to be, nor suspected to be a cancer-causing agent

Reproductive toxicity information: Suspected of damaging fertility or the unborn child

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No evidence is currently available on this product’s effects on aquatic life.

Component Data: Phenol, 4-nonyl-, branched

96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr 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 Biodegradation: 28 days 12% OECD

Bioaccumulation: Not readily biodegradable

Persistence and degradability: No data available

Bio accumulative potential: No data available

Mobility in soil: No evidence is currently available on this product’s effects on plants or animals.

Ecotoxicological effects:

Remark:

Additional ecological information: No data available

General notes: No specific data is available for this product; however this product is expected to be readily biodegradable

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations

SECTION 14: TRANSPORTATION INFORMATION

DOT Not regulated

IATA

UN/ID no.	3082
Proper shipping name	Environmentally Hazardous Substance liquid, N.O.S. (Bisphenol A epoxy resin)
Hazard Class	9
Packing Group	III

IMDG

UN/ID no.	3082
Proper shipping name	Environmentally Hazardous Substance liquid, N.O.S. (Bisphenol A epoxy resin)
Hazard Class	9
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

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed

SECTION 16: OTHER INFORMATION**NFPA** Not regulated

Issue Date	August 3, 2020
Revision Date	November 16, 2023
Revision Note	Address

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