Reviewed on 03/31/2020



Safety Data Sheet acc. to OSHA HCS

Printing date 09/16/2022

1 Identification

· Product identifier

- Trade name: EP-799 Two-Part Black Potting Compound B Side
- · Application of the substance / the mixture Black potting compound component
- Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Kayaku Advanced Materials, Inc. 200 Flanders Road Westborough, MA 01581 Tel: (617) 965-5511 Fax: (617) 965-5818

- Information department: Product Safety Email: productsafety@kayakuAM.com • Emergency telephone number:
- Kayaku Advanced Materials : 617-965-5511 Chemtrec USA Emergency : 800-424-9300 Chemtrec International Emergency : 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture GHS08 Health hazard H334 May cause allergy or asthma symptoms or Sensitization - Respiratory 1 breathing difficulties if inhaled. Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child. Specific Target Organ Toxicity - Single Exposure 1 H370 Causes damage to organs. Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to organs through prolonged or repeated exposure. GHS05 Corrosion Skin Corrosion 1B H314 Causes severe skin burns and eye damage. Eye Damage 1 H318 Causes serious eye damage. GHS07 H317 May cause an allergic skin reaction. Sensitization - Skin 1 Flammable Liquids 4 H227 Combustible liquid. · Label elements • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)



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Trade name: EP-799 Two-Part Black Potting Compound - B Side (Contd. of page 1) · Hazard pictograms GHS05 GHS08 · Signal word Danger · Hazard-determining components of labeling: Proprietary Curing Agent *N-(aminoethyl)piperazine* · Hazard statements H227 Combustible liquid. H314 Causes severe skin burns and eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. · 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. P301+P310 If swallowed: Immediately call a poison center/doctor. P302+P352 If on skin: Wash with plenty of soap and water. *P304+P341* If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. *P337+P313* If eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) *Health* = 3Fire = 2Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3FIRE 2 Fire = 2**REACTIVITY O** Reactivity = 0· Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	is components:	
	Proprietary Curing Agent	75-100%
	Sensitization - Respiratory 1, H334; Toxic to Reproduction 2, H361; Specific Target Organ Toxicity - Single Exposure 1, H370; Specific Target Organ Toxicity - Repeated Exposure 1, H372; O Eye Damage 1, H318; Skin Irrititation 2, H315; Sensitization - Skin 1, H317	
	N-(aminoethyl)piperazine Skin Corrosion IB, H314; Eye Damage 1, H318; Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Sensitization - Skin 1, H317; Flammable Liquids 4, H227; Aquatic Chronic 3, H412	5-15%

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

• After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact:

Wash eyes immediately with a large amount of water or normal saline, occasionally lifting upper and lower eye lids until no evidence of chemical remains (about 20 minutes). Remove contact lenses if present and easy to remove. Seek immediate medical attention.

• After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available. • Indication of any immediate medical attention and special treatment needed Treat symptomatically.

5 Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents:

Alcohol resistant foam Fire-extinguishing powder

ABC powder

• For safety reasons unsuitable extinguishing agents: Water with full jet

· Special hazards arising from the substance or mixture No further relevant information available.

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6.4 mg/m3

71 mg/m3

420 mg/m3

• Advice for firefighters

· Protective equipment: Wear SCBA.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Ensure adequate ventilation
- Keep away from ignition sources
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

- Ensure adequate ventilation.
- 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.
- · Protective Action Criteria for Chemicals

· PAC-1:

140-31-8 N-(aminoethyl)piperazine

· PAC-2:

140-31-8 N-(aminoethyl)piperazine

· PAC-3:

140-31-8 N-(aminoethyl)piperazine

7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaust at the workplace. Open and handle container with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respirator available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and containers: No special requirements.
- · Information about storage in one common storage facility: Store away from oxidizing agents.
- *Further information about storage conditions: Protect from heat and direct sunlight. Store receptacle in a well ventilated area.*
- Keep container tightly sealed.
- *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: No further data; see item 7.
- · 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.
- *Additional information:* The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from food and beverages. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
- Respiratory equipment:
- In case of low exposure, use cartridge respirator. In case of intensive or longer exposure, use SCBA.
- · Protection of hands:



Protective gloves

- *The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Nitrile rubber, NBR*
- Penetration time of glove material Contact glove manufacture for break-through time.
- Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Form:	Liquid
Color:	Red-brown
· Odor:	Amine-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

92 °C (197.6 °F)

· Flash point:

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Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	2.1 Vol %	
Upper:	10.5 Vol %	
Vapor pressure:	Not determined.	
Density:	See other information	
Relative density	Not determined.	
Vapor density	Not determined.	
Solubility in / Miscibility with		
Water:	Water miscible No	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

- · Chemical stability Stable
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid
- Heat, flames and sparks. Extremes of temperature and direct sunlight.
- Contact with incompatible materials.
- · Incompatible materials: Strong oxidizing agents
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

140-31-8 N-(aminoethyl)piperazine

Oral LD50 2140 mg/kg (Rat)

Dermal LD50 880 mg/kg (rabbit)

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[·] Reactivity No further relevant information available.

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- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- Sensitization:

Sensitization possible through inhalation. Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

· NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- *Persistence and degradability* No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of as regular garbage/trash. Do not allow product to reach sewage system. Disposal must be made in accordance with Federal, State, and Local regulations.

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· Uncleaned packagings:

· Recommendation: Disposal must be made in accordance with Federal, State, and Local regulations.

UN-Number DOT, ADR, ADN, IMDG, IATA	Not Regulated	
UN proper shipping name ADR, ADN, IMDG, IATA	Not Regulated	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not Regulated	
Packing group DOT, ADR, IMDG, IATA	Not Regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Not Regulated	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act): All ingredients are listed or comply with TSCA regulations.

· Proposition 65

· 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.

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· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed.

• TLV (Threshold Limit Value)

None of the ingredients are listed.

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

- · California SCAQMD Rule 443.1 VOC's: No information available.
- *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

· Hazard-determining components of labeling:

Proprietary Curing Agent

N-(aminoethyl)piperazine

· Hazard statements

H227 Combustible liquid.

H314 Causes severe skin burns and eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

1 recumbrury sind	ements
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.
P301+P310	If swallowed: Immediately call a poison center/doctor.
P302+P352	If on skin: Wash with plenty of soap and water.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use to extinguish: Alcohol resistant foam, Fire-extinguishing powder, Carbon dioxide.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Chemical safety as	sessment: A Chemical Safety Assessment has not been carried out.

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speci	fic product features and shall not establish a legally valid contractual relationship.
	urtment issuing SDS: Product safety department
Cont	act: Tom Cole, EHS Manager (tcole@kayakuAM.com)
Revis	sion History: The manufacturer's information in Section 1 has been updated.
Date	of preparation / last revision 09/16/2022
Abbr	eviations and acronyms:
	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the Internati
	nge of Dangerous Goods by Road)
	: International Maritime Code for Dangerous Goods
	US Department of Transportation
	International Air Transport Association
EINE	CS: European Inventory of Existing Commercial Chemical Substances
ELINO	CS: European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA	: National Fire Protection Association (USA)
HMIS	: Hazardous Materials Identification System (USA)
	Lethal concentration, 50 percent
	· Lethal dose, 50 percent
	Persistent, Bioaccumulative and Toxic
	very Persistent and very Bioaccumulative
	H: National Institute for Occupational Safety
	: Occupational Safety & Health
	Threshold Limit Value
	Permissible Exposure Limit
	Recommended Exposure Limit
	nable Liquids 4: Flammable liquids – Category 4
	Toxicity - Oral 4: Acute toxicity – Category 4
	Corrosion 1B: Skin corrosion/irritation – Category 1B
	rititation 2: Skin corrosion/irritation – Category 2
	amage 1: Serious eye damage/eye irritation – Category 1
	ization - Respiratory 1: Respiratory sensitisation – Category 1
	ization - Skin 1: Skin sensitisation – Category 1
	to Reproduction 2: Reproductive toxicity – Category 2
	ic Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1
specif	ic Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1 ic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3