

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.14.2019

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Epo Coat H3H "B"

SECTION 1: Identification

Product identifier

Product name: Epo Coat H3H "B"



Recommended use of the product and restriction on use

Relevant identified uses: Not determined or not applicable.

Uses advised against: Industrial Use: Epoxy Curing Agent

Reasons why uses advised against: Any use other than that recommended above

Manufacturer or supplier details

Manufacturer:

United States

Dynamis Epoxy Systems
415 E. Venice Avenue
Venice, FL 34285
941.488.3999
www.dcdynamis.com

Emergency telephone number:

United States

ChemTel
(888)-255-3924 (24 hours)

SECTION 2: Hazard(s) identification

GHS classification:

Serious eye damage, category 1

Skin sensitization, category 1

Acute toxicity (oral), category 4

Skin corrosion, category 1A

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection

P272 Contaminated work clothing must not be allowed out of the workplace

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P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P271 Use only outdoors or in a well-ventilated area
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a POISON CENTER/doctor
P302+P352 IF ON SKIN: Wash with plenty of water
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
P321 Specific treatment (see Section 4 on this label)
P363 Wash contaminated clothing before reuse
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 IF ON SKIN (or hair): 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
P312 Call a POISON CENTER/doctor/if you feel unwell
P405 Store locked up
P403+P233 Store in a well-ventilated place. Keep container tightly closed
P501 Dispose of contents/container in accordance with all local, regional, state, and federal regulations

Hazards not otherwise classified: None

Supplemental label elements:

40 percent of the mixture consists of ingredient(s) of unknown acute oral toxicity

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 100-51-6	Benzyl Alcohol	35-45
CAS number: 68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	15-40
CAS number: 2855-13-2	Isophorone diamine	35-40
CAS number: 69-72-7	Salicylic acid	<2

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

First responders should wear gloves and other self-protection when performing treatment.

After 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. If breathing has stopped, trained personnel should begin rescue breathing. Avoid mouth-to-mouth contact by using a barrier device.

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After 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.

After eye contact:

Get medical advice/ attention. Avoid direct contact and wear chemical protective gloves, if necessary. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:

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).

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Serious eye damage symptoms may include irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

Specific target organ toxicity may cause respiratory irritation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment

Specific treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use water stream, as this may spread fire.

Specific hazards during fire-fighting:

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Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Special precautions:

Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear recommended personal protective equipment. Ensure adequate ventilation. Ensure air handling systems are operational.

Environmental precautions:

Should not be released into the environment and should be prevented from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing. Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders).

Reference to other sections:

For personal protection see section 8.

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist or vapor. Do not eat, drink, smoke or use personal products when handling chemical substances. Wash thoroughly after handling. Do not swallow. Do not get in eyes, on skin, or on clothing.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area. Protect from freezing and physical damage. Keep container tightly sealed. Hold bulk storage under a nitrogen blanket.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Benzyl Alcohol	100-51-6	TWA: 10 ppm

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate explosion-proof ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

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Personal protection equipment

Eye and face protection:

Contact with material may cause severe injury. Use safety glasses with side shields or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Light Yellow Liquid
Odor	Ammonia-like
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	> 401 °F
Flash point (closed cup)	203 °F
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	13%
Lower flammability/explosive limit	1.3%
Vapor pressure	0.1 hPa
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1 g/cm ³
Solubilities	Fully Miscible
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.

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Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal storage and handling conditions.

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

Incompatible materials.

Incompatible materials:

Strong oxidizing agents. Strong acids. Strong alkali. Peroxides and other radical forming substances.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

Acute toxicity

Assessment:

Harmful if swallowed.

Product data: No data available.

Substance data:

Name	Route	Result
Benzyl Alcohol	oral	LD50 Rabbit: 1040 mg/kg
	inhalation	LC50 Rat: 4.178 mg/L (4hr)
Isophorone diamine	oral	LD50 Rat: 1030 mg/kg
Salicylic acid	oral	LD50 Rat: 891 mg/kg

Skin corrosion/irritation

Assessment:

Causes severe skin burns and eye damage.

Product data:

No data available.

Substance data:

Name	Result
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Causes severe skin burns.
Isophorone diamine	Causes severe skin burns

Serious eye damage/irritation

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Assessment:

Causes serious eye damage.

Product data:

No data available.

Substance data:

Name	Result
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Causes serious eye damage.
Salicylic acid	Causes serious eye damage

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction.

Product data:

No data available.

Substance data:

Name	Result
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	May cause an allergic skin reaction.
Isophorone diamine	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment:

May cause respiratory irritation.

Product data:

No data available.

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Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

Inhalation, Ingestion, Skin contact, Eye contact.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Benzyl Alcohol	Readily biodegradable in water.
Salicylic acid	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Salicylic acid	Calculated BCF: 355 ; Calculated logBCF: 2.55

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to

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applicable regulatory agencies. Dispose of in accordance with all applicable local, regional, state and federal regulations.

Contaminated packages:


Not determined or not applicable.

SECTION 14: Transport information


United States Transportation of dangerous goods (49 CFR DOT)

UN number	1760
UN proper shipping name	Amines, Liquid, Corrosive, n.o.s. (Isophorone Diamine)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
Passenger air/rail	5L
Cargo aircraft only	60L
Stowage category	A

International Maritime Dangerous Goods (IMDG)

UN number	2735
UN proper shipping name	AMINES, LIQUID,CORROSIVE, N.O.S. (Isophorone Diamine)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
Limited quantity	5L

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	2735
UN proper shipping name	Amines, Liquid, Corrosive, n.o.s. (Isophorone Diamine)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

100-51-6	Benzyl Alcohol	Listed
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68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Listed
2855-13-2	Isophorone diamine	Listed
69-72-7	Salicylic acid	Listed

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

100-51-6	Benzyl Alcohol	Not Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
2855-13-2	Isophorone diamine	Not Listed
69-72-7	Salicylic acid	Not Listed

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

100-51-6	Benzyl Alcohol	Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
2855-13-2	Isophorone diamine	Not Listed
69-72-7	Salicylic acid	Not Listed

New Jersey Right to Know:

100-51-6	Benzyl Alcohol	Not Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
2855-13-2	Isophorone diamine	Listed
69-72-7	Salicylic acid	Not Listed

New York Right to Know:

100-51-6	Benzyl Alcohol	Not Listed
68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
2855-13-2	Isophorone diamine	Listed
69-72-7	Salicylic acid	Not Listed

Pennsylvania Right to Know:

100-51-6	Benzyl Alcohol	Listed
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68609-08-5	Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	Not Listed
2855-13-2	Isophorone diamine	Not Listed
69-72-7	Salicylic acid	Not Listed

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-1-0

HMIS: 3-1-0

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End of Safety Data Sheet