



FLAG STONE FIX
STONE CARE EXPERTS



Material Safety Data Sheet(MSDS)

FLAGPOX 1005 (HARDENER)

SECTION 1: IDENTIFICATION

1.1 GHS Product Identifier

Product name FLAGPOX 1005 (HARDENER)

1.2 Other means of Identification

Transparent liquid

1.3 Recommended use of the chemical and restrictions on use

Hardening agent for FLAGPOX 1005 (HARDENER)

1.4 Supplier's details

Name	ZYAX Chem LLP
Address	401, 402 & 403 Concorde, Plot No. 66 A, Sector No. 11, CBD Belapur, Navi Mumbai - 400 614, Maharashtra, INDIA.
Contact	+91 87792 40420
Email	info@zyax.in
Website	www.zyax.in

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, dermal, Cat. 5
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, inhalation, Cat. 5
- Acute toxicity, oral, Cat. 4
- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B
- Sensitization, skin, Cat. 1

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2.2 GHS label elements, including precautionary statements

Pictograms

Danger

Hazard statement(s)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER /doctor/...if you feel unwell,
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water/...
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: 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.
P310	Immediately call a POISON CENTER/doctor/...
P312	Call a POISON CENTER/doctor/.../ if you feel unwell.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up. Dispose of contents/container to ...

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product contains the following components with other non-hazardous additions.

Hazardous components

1. Benzyl alcohol

Concentration	15 - 30 % (weight)
EC no.	202-859-9
CAS no.	100-51-6
Index no.	603-057-00-5

- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4

H302	Harmful if swallowed
H332	Harmful if inhaled

2. 1,3-Cyclohexanedimethanamine

Concentration	10 - 20 % (weight)
EC no.	219-941-5
CAS no.	2579-20-6

3. Polyoxypropylene diamine

Concentration	1 - 5 % (weight)
CAS no.	9046-10-0

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SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures

General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders
Basic PPE

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Unconsciousness

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical

Benzyl alcohol: Carbon oxides

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5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Handle and store under inert gas. hygroscopic
Storage class (TRGS 510): Combustible liquids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

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Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 43 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Thermal hazards

No data available.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

Physical state	Liquid
Appearance	Clear liquid
Color	Transparent
Odor	Characteristic
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	Product is not flammable
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	1.00
Solubility	Solubility Insoluble
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	Product is not auto-igniting
Decomposition temperature	No data available.
Kinematic viscosity	275-300
Explosive properties	Product is not explosive

Particle characteristics

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

hygroscopic Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

A mixture of benzyl alcohol and 58% sulfuric acid decomposed violently when heated to 180°C. Benzyl alcohol containing 1.4% hydrogen bromide and 1.1% of an iron(II) salt polymerized exothermally when heated above 100°C.

10.5 Incompatible materials

Benzyl alcohol: Strong oxidizing agents

10.6 Hazardous decomposition products

Benzyl alcohol: Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Benzyl alcohol: LD50 Oral - Rat - 1,230 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Excitement. Behavioral:Coma.

LD50 Oral - Rat - male - 1,620 mg/kg

Dermal: No data available

No data available

Skin corrosion/irritation

Benzyl alcohol: Benzyl alcohol

OECD Test Guideline 404 Skin - Rabbit - 24 h

Result: No skin irritation

Serious eye damage/irritation

Benzyl alcohol: Benzyl alcohol

OECD Test Guideline 405 Eyes - Rabbit - 24 h

Result: Eye irritation

Respiratory or skin sensitization

Benzyl alcohol: No data available.

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Germ cell mutagenicity

Benzyl alcohol: No data available.

Carcinogenicity

Benzyl alcohol: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Benzyl alcohol: No data available.

Summary of evaluation of the CMR properties

Benzyl alcohol: No data available.

Specific target organ toxicity (STOT) - single exposure

Benzyl alcohol: No data available.

Specific target organ toxicity (STOT) - repeated exposure

Benzyl alcohol: No data available.

Aspiration hazard

Benzyl alcohol: No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Benzyl alcohol: Benzyl alcohol

LC50 - Lepomis macrochirus (bluegill) - 10 mg/l - 96 h

Benzyl alcohol

LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h

Benzyl alcohol

EC50 - Daphnia magna (water flea) - 55 mg/l - 24 h

Benzyl alcohol

LC50 Percutaneous - Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h

Benzyl alcohol

LC50 Percutaneous - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h

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Persistence and degradability

Benzyl alcohol: Benzyl alcohol
Biotic/Aerobic - Exposure time 28 d
Result: Result: 92 - 96 % - Readily biodegradable

Benzyl alcohol
Aerobic Biochemical oxygen demand - Exposure time 7 d
Result: Result: 92 - 96 % - Readily biodegradable
(OECD Test Guideline 301C)

Bioaccumulative potential

Benzyl alcohol: No data available.

Mobility in soil

Version: 1.0, Date of issue: 2022-06-27, p. 7 of 9
Benzyl alcohol: No data available.

Results of PBT and vPvB assessment

Benzyl alcohol: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Benzyl alcohol: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Packaging disposal

Dispose of as unused product.

Waste treatment

No data available.

Sewage disposal

Do not dispose in sewage.

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SECTION 14: TRANSPORT INFORMATION

DOT (US)

UN Number: UN2735
Class: 8 (C7) Corrosive substance
Packing Group: II
Proper Shipping Name: Polyamines, liquid, corrosive substance
Reportable quantity (RQ): 1 kg
Marine pollutant: No
Poison inhalation hazard: No

IMDG

UN Number: UN2735
Class: 8
Packing Group: II
EMS Number: F-A, S-B
Proper Shipping Name: Polyamines, liquid, corrosive substance

IATA

UN Number: UN2735
Class: 8
Packing Group: II
Proper Shipping Name: Polyamines, liquid, corrosive substance

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question

Pennsylvania Right To Know Components

Benzyl alcohol
CAS number: 100-51-6

Massachusetts Right To Know Components

Benzyl alcohol
CAS number: 100-51-6

New Jersey Right To Know Components

Benzyl alcohol
CAS number: 100-51-6

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL)

Chemical name: Benzenemethanol

CAS: 100-51-6

Canadian Domestic Substances List (DSL)

Chemical name: 1,3-Cyclohexanedimethanamine

CAS: 2579-20-6

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Email:

Date of issue:

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Material Safety Data Sheet(MSDS)

FLAGPOX 1005 (RESIN)

SECTION 1: IDENTIFICATION

1.1 GHS Product Identifier

Product name FLAGPOX 1005 (RESIN)

1.2 Other means of Identification

Transparent liquid

1.3 Recommended use of the chemical and restrictions on use

Low viscosity epoxy resin for surface filling and other large applications

1.4 Supplier's details

Name	ZYAX Chem LLP
Address	401, 402 & 403 Concorde, Plot No. 66 A, Sector No. 11, CBD Belapur, Navi Mumbai - 400 614, Maharashtra, INDIA.
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Email	info@zyax.in
Website	www.zyax.in

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation, Cat. 5
- Acute toxicity, oral, Cat. 5
- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2
- Sensitization, skin, Cat. 1

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Material Safety Data Sheet(MSDS)

FLAGPOX 1005 (RESIN)

2.2 GHS label elements, including precautionary statements

Pictograms

Warning

Hazard statement(s)

H315

Causes skin irritation

H317

May cause an allergic skin reaction

H319

Causes serious eye irritation

Precautionary statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264

Wash ... thoroughly after handling.

P272

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

P280

Wear eye protection/face protection/protective gloves.

P302+P352

IF ON SKIN: Wash with plenty of 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.

P321

Specific treatment (see ... on this label).

P332+P313

If skin irritation occurs: Get medical advice/attention.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P337+P313

If eye irritation persists: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

P363

Wash contaminated clothing before reuse.

P501

Dispose of contents/container to ...

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Material Safety Data Sheet(MSDS)

FLAGPOX 1005 (RESIN)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product contains the following components with other non-hazardous additions.

Hazardous components

1. EPOXYRESIN, reaction product: BISPHENOL-A(EPICHLOROHYDRIN), average molecule wei

Concentration	60 - 90 % (weight)
EC no.	500-033-5
CAS no.	25068-38-6
Index no.	603-074-00-8

- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A
- Sensitization, skin, Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 2

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects
SCLs/M-factors/ATEs	Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %

2. Benzyl alcohol

Concentration	1 - 10 % (weight)
EC no.	202-859-9
CAS no.	100-51-6
Index no.	603-057-00-5

- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat.

H302	Harmful if swallowed
H332	Harmful if inhaled

3. O-CRESYL GLYCIDYL ETHER

Concentration	1 - 10 % (weight)
EC no.	218-645-3
CAS no.	2210-79-9

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FLAGPOX 1005 (RESIN)

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures

General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Personal protective equipment for first-aid responders
Basic PPE

4.2 Most important symptoms/effects, acute and delayed

Sickness, allergies, coughing and difficulty breathing

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Unconsciousness

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical

Benzyl alcohol: Carbon oxides

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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FLAGPOX 1005 (RESIN)

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.
Handle and store under inert gas. hygroscopic
Storage class (TRGS 510): Combustible liquids

Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

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Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested:Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 43 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Material Safety Data Sheet(MSDS)

FLAGPOX 1005 (RESIN)

Thermal hazards

No data available.

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES AND SAFETY CHARACTERISTICS

Physical state	Liquid
Appearance	Clear liquid
Color	Clear
Odor	Characteristic
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	Product is not flammable
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	1.15-1.17
Solubility	Insoluble in water
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	Product is not auto-igniting
Decomposition temperature	No data available.
Kinematic viscosity	250-275
Explosive properties	Product is not explosive

Particle characteristics

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

hygroscopic

Stable under recommended storage conditions. Test for peroxide formation before distillation or evaporation. Test for peroxide formation or discard after 1 year. Stable under recommended storage conditions.

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10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Do not let water mix in during working or storage. Keep away from strong acids and oxidizing agents.

10.5 Incompatible materials

Propylene carbonate: Acids, Bases

Benzyl alcohol: Strong oxidizing agents

10.6 Hazardous decomposition products

Benzyl alcohol: Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Benzyl alcohol: LD50 Oral - Rat - 1,230 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Excitement. Behavioral:Coma.

LD50 Oral - Rat - male - 1,620 mg/kg

Dermal: No data available

No data available

Skin corrosion/irritation

Benzyl alcohol: Benzyl alcohol

OECD Test Guideline 404 Skin - Rabbit - 24 h

Result: No skin irritation

Serious eye damage/irritation

Benzyl alcohol: Benzyl alcohol

OECD Test Guideline 405 Eyes - Rabbit - 24 h

Result: Eye irritation

Respiratory or skin sensitization

Benzyl alcohol: No data available.

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Germ cell mutagenicity

Benzyl alcohol: No data available.

Carcinogenicity

Benzyl alcohol: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Benzyl alcohol: No data available.

Summary of evaluation of the CMR properties

Benzyl alcohol: No data available.

Specific target organ toxicity (STOT) - single exposure

Benzyl alcohol: No data available.

Specific target organ toxicity (STOT) - repeated exposure

Benzyl alcohol: No data available.

Aspiration hazard

Benzyl alcohol: No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Benzyl alcohol: Benzyl alcohol

LC50 - Lepomis macrochirus (bluegill) - 10 mg/l - 96 h

Benzyl alcohol

LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h

Benzyl alcohol

EC50 - Daphnia magna (water flea) - 55 mg/l - 24 h

Benzyl alcohol

LC50 Percutaneous - Lepomis macrochirus (Bluegill) - 10 mg/l - 96 h

Benzyl alcohol

LC50 Percutaneous - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h

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Persistence and degradability

Benzyl alcohol: Benzyl alcohol
Biotic/Aerobic - Exposure time 28 d
Result: Result: 92 - 96 % - Readily biodegradable

Benzyl alcohol
Aerobic Biochemical oxygen demand - Exposure time 7 d
Result: Result: 92 - 96 % - Readily biodegradable
(OECD Test Guideline 301C)

Bioaccumulative potential

Benzyl alcohol: No data available.

Mobility in soil

Benzyl alcohol: No data available.

Results of PBT and vPvB assessment

Benzyl alcohol: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Benzyl alcohol: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

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Material Safety Data Sheet(MSDS)

FLAGPOX 1005 (RESIN)

SECTION 14: TRANSPORT INFORMATION

DOT (US)

UN Number: UN 3082

Class: 9 (M6) Miscellaneous dangerous substance

Packing Group: III

Proper Shipping Name: Environmentally hazardous substances (bis[4-(2,3-epoxypropoxy)phenyl]propane, 2,3-epoxypropyl o-tolyl ether)

Reportable quantity (RQ): 1 kg

Marine pollutant: Yes

Poison inhalation hazard: No

IMDG

UN Number: UN3082

Class: 9 (M6) Miscellaneous dangerous substances

Packing Group: III

EMS Number: F-A, S-B

Proper Shipping Name: Environmentally hazardous substances (bis[4-(2,3-epoxypropoxy)phenyl]propane, 2,3-epoxypropyl o-tolyl ether)

IATA

UN Number: UN3082

Class: 9 (M6) Miscellaneous dangerous substances

Packing Group: III

Proper Shipping Name: Environmentally hazardous substances (bis[4-(2,3-epoxypropoxy)phenyl]propane, 2,3-epoxypropyl o-tolyl ether)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)

Chemical name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane

CAS: 25068-38-6

Pennsylvania Right To Know Components

Benzyl alcohol

CAS number: 100-51-6

Massachusetts Right To Know Components

Benzyl alcohol

CAS number: 100-51-6

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Material Safety Data Sheet(MSDS)

FLAGPOX 1005 (RESIN)

New Jersey Right To Know Components

Benzyl alcohol

CAS number: 100-51-6

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL)

Chemical name: Benzenemethanol

CAS: 100-51-6

Canadian Domestic Substances List (DSL)

Chemical name: Oxirane, [(2-methylphenoxy)methyl]-

CAS: 2210-79-9

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Email:

Date of issue:

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