Printing date 05/18/2020 Reviewed on 05/18/2020

1 Identification

- · Product identifier
- · Trade name: Seal Boss 4040 Part A
- · Article number: 145142A
- · Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SealBoss

1669 E Wilshire Ave

Santa Ana, CA 92705

Tel: (714) 662-4445

24 HR Emergency Contact: Chem Tel - For Seal Boss (800) 255-3924

· Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · Label elements
- GHS label dements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07

GHS09

- · Signal word Warning
- · Hazard-determining components of labeling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

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

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part A

(Contd. of page 1)

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous components:				
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	>70 -≤ 90%		
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	10%		

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Seek medical treatment.
- · 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 No further relevant information available.

US

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part A

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Protective equipment:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage: cool and dry
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

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.

(Contd. on page 4)

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part A

(Contd. of page 3)

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Wear appropriate eye protection to prevent eye contact.

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<i></i>	vsical							

· Information on basic physical and chemical properties

· General Information

 $\cdot \textit{Appearance}$

Form: Liquid
Color: Light yellow
Odor: Slight

· Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

• Flammability (solid, gaseous): Not applicable.

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

· Vapor pressure: Not determined.

• Density at 20 °C (68 °F): 1.11918 g/cm³ (9.33956 lbs/gal)

Relative density Not determined.Vapor density Not determined.

(Contd. on page 5)

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Trade name: Seal Boss 4040 - Part A

(Contd. of page 4)

• Evaporation rate Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No decomposition if stored and applied as directed.
- · Chemical stability No decomposition if stored and applied as directed
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: May cause skin irritation.
- · on the eye:

Strong irritant with the danger of severe eye injury.

Irritating effect.

- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

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

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 6)

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part A

(Contd. of page 5)

- · 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 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:

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to Federal, State, and Local regulations.

Not Regulated
Not Regulated
Not Regulated
Not Regulated
Product contains environmentally hazardous substance. reaction product: bisphenol-A-(epichlorhydrin) epoxy rest (number average molecular weight = 700)

(Contd. on page 7)

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Trade name: Seal Boss 4040 - Part A

(Contd. of page 6)

- · Transport/Additional information:
- $\cdot ADR$
- · U.S. Domestic Ground Shipments:

Same as listed for Standard Shipments above.

 U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:

Same as listed for Standard Shipments above.

• Emergency Response Guide (ERG) Number: Not determine

· UN "Model Regulation": Not Regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = ACTIVE 700)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

ACTIVE

· Hazardous Air Pollutants

None of the ingredients is listed.

- Proposition 65
- · Chemicals known to the State of California (Prop. 65) to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

(Contd. on page 8)

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part A

(Contd. of page 7)

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

None of the ingredients is listed.

- · GHS label dements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07

GHS09

- · Signal word Warning
- · Hazard-determining components of labeling:

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) oxirane, mono[(C12-14-alkyloxy)methyl] derivs

· Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

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

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- · Department issuing SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- · Date of preparation / last revision 05/18/2020 / 3
- · Abbreviations and acronyms:

ADR: Accord europé en sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goads by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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Reviewed on 05/18/2020 Printing date 05/18/2020

Trade name: Seal Boss 4040 - Part A

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

(Contd. of page 8)

Printing date 05/18/2020 Reviewed on 05/18/2020

1 Identification

- Product identifier
- · Trade name: Seal Boss 4040 Part B
- · Article number: 145142B
- · Application of the substance / the mixture
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SealBoss

1669 E Wilshire Ave

Santa Ana, CA 92705

Tel: (714) 662-4445

24 HR Emergency Contact: Chem Tel - For Seal Boss (800) 255-3924

· Information department: Environmental, Health, and Safety department.

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 1B H360 May damage fertility or the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- · Label elements
- · GHS label dements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms









GHS09

GHS05

GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

2-piperazin-1-ylethylamine

4-nonylphenol, branched

3-aminomethyl-3, 5, 5-trimethylcyclohexylamine

3, 6, 9-triazaundecamethylenediamine

3, 6-diazaoctanethylenediamin

· Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause respiratory irritation.

(Contd. on page 2)

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part B

(Contd. of page 1)

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

· Precautionary statements

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- Reactivity = 0
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
84852-15-3	4-nonylphenol, branched	25%	
140-31-8	2-piperazin-1-ylethylamine	25%	
100-51-6	Benzyl alcohol	≥5-≤10%	
2855-13-2	3-aminomethyl-3, 5, 5-trimethylcyclohexylamine	≥5-≤10%	
112-57-2	3, 6, 9-triazaundecamethylenediamine	≥5-≤6%	
	Trade Secret	≥1-≤6%	
112-24-3	3,6-diazaoctanethylenediamin	≥2.5-≤3%	

 \cdot **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms recieve medical treatment.

(Contd. on page 3)

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Trade name: Seal Boss 4040 - Part B

(Contd. of page 2)

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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Seek medical treatment.

- 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 No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- Protective equipment:

Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

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.

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Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part B

(Contd. of page 3)

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.

- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage: cool and dry
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

WEEL Long-term value: 10 ppm

112-57-2 3,6,9-triazaundecamethylenediamine

WEEL Long-term value: 5 mg/m³

Skin; DSEN

112-24-3 3,6-diazaoctanethylenediamin

WEEL Long-term value: 6 mg/m³, 1 ppm

Skin

- · 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 foodstuffs, beverages and feed.

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.

Avoid contact with the eyes and skin.

- · Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:



(Contd. on page 5)

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Trade name: Seal Boss 4040 - Part B

(Contd. of page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

• Eye protection: Wear appropriate eye protection to prevent eye contact.

Physical and chemical proper	ties
Information on basic physical and	chemical properties
General Information	• •
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Ammonia-like
Odor threshold:	Not determined.
· pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
Density at 20 °C (68 °F):	0.94663 g/cm³ (7.89963 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	5-10 %
Other information	No further relevant information available.
· Volatile Organic Compounds:	Contains less than 50 g/L.

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part B

(Contd. of page 5)

10 Stability and reactivity

- · Reactivity No decomposition if stored and applied as directed.
- · Chemical stability No decomposition if stored and applied as directed
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Keep away from heat and sources of ignition.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

140-31-8 2-piperazin-1-ylethylamine

Oral LD50 2,140 mg/kg (rat)

Dermal LD50 880 mg/kg (rabbit)

112-57-2 3,6,9-triazaundecamethylenediamine

Dermal LD50 660 mg/kg (rabbit)

- · Primary irritant effect:
- · on the skin: May cause skin irritation.
- on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- · Sensitization: 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 is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 7)

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part B

(Contd. of page 6)

- · 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.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · 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:

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to Federal, State, and Local regulations.

· UN-Number · DOT, ADR, IMDG, IATA	UN2735
· UN proper shipping name	
DOT	Amines, liquid, corrosive, n.o.s. (4-nonylphenol, branched Tetraethylenepentamine)
· ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4 nonylphenol, branched, TETRAETHYLENEPENTAMINE, ENVIRONMENTALLY HAZARDOUS
· IMDG	AMINES, LIQUID, CORROSIVE, N.O.S. (4-nonylphenot branched, TETRAETHYLENEPENTAMINE), MARINI POLLUTANT
· IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (4-nonylphenol branched, TETRAETHYLENEPENTAMINE)

(Contd. on page 8)

Printing date 05/18/2020 Reviewed on 05/18/2020

Trade name: Seal Boss 4040 - Part B

(Contd. of page 7) Transport hazard class(es) DOT Class 8 Corrosive substances · Label · ADR, IATA Class 8 Corrosive substances Label · IMDG Class 8 Corrosive substances · Label 8 · Packing group · DOT, ADR, IMDG, IATA Ш · Environmental hazards: Product contains environmentally hazardous substances: 4nonylphenol, branched · Marine pollutant: Symbol (fish and tree) · Special precautions for user Warning: Corrosive substances · Danger code (Kemler): 80 · EMS Number: F-A, S-B· Segregation groups Alkalis · Stowage Category В · Stowage Code SW2 Clear of living quarters. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: $\cdot ADR$ Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · U.S. Domestic Ground Shipments: Same as listed for Standard Shipments above. · U.S. Domestic Ground Non-Bulk (119 gal or less per Same as listed for Standard Shipments above. container) Shipments:

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(Contd. of page 8) Emergency Response Guide (ERG) Number: Not determine · IMDG · Limited quantities (LQ) 5L· Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4-· UN "Model Regulation": NONYLPHENOL, BRANCHED, TETRAETHYLENEPENTAMINE), 8, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

84852-15-3	4-nonylphenol, branched	25%			
· TSCA (Tox	· TSCA (Toxic Substances Control Act):				
68953-36-6	Polyamido Amine	ACTIVE			
	4-nonylphenol, branched	ACTIVE			
		ACTIVE			
	·	ACTIVE			
		ACTIVE			
112-57-2	3, 6, 9-triazaundecamethylenediamine	ACTIVE			
		ACTIVE			
112-24-3	3, 6-diazaoctanethylenediamin	ACTIVE			

· Hazardous Air Pollutants

None of the ingredients is listed.

- · Proposition 65
- · Chemicals known to the State of California (Prop. 65) to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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

None of the ingredients is listed.

- · GHS label dements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms









GHS05

GHS07

GHS08 GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

2-piperazin-1-ylethylamine

4-nonylphenol, branched

3-aminomethyl-3, 5, 5-trimethylcyclohexylamine

3, 6, 9-triazaundecamethylenediamine

3, 6-diazaoctanethylenediamin

· Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

May cause respiratory irritation.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · National regulations:
- · Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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.

- · Department issuing SDS: Environmental, Health & Safety Department
- · Contact: Environmental, Health & Safety Manager
- · Date of preparation / last revision 05/18/2020 / 3
- · Abbreviations and acronyms:

ADR: Accord europé en sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity - Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard-Category 1

 $A quatic\ Chronic\ 1:\ Hazardous\ to\ the\ aquatic\ environment-long-term\ aquatic\ hazard-Category\ 1$

US