according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

## 1 Identification

· Product identifier

· Trade name: Bar's Leaks® Cooling System Repair Left Side

· Product code: 1150

· Recommended use and restriction on use

· Recommended use: Sealant

· Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

Bar's Products P.O. Box 187 Holly, MI 48442 USA Phone: (810) 603-1321



**Emergency telephone number:** 

ChemTel Inc.

(800)255-3924 (North America) +1 (813)248-0585 (International)

## 2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

- Label elements
- GHS label elements Not regulated.
- · Hazard pictograms: Not regulated.
- · Signal word: Not regulated.
- Hazard statements: Not regulated.
- · Precautionary statements: Not regulated.
- Other hazards There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

 <5%

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

### 4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Clean with water and soap.

(Cont'd. on page 2)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

## Trade name: Bar's Leaks® Cooling System Repair Left Side

(Cont'd. of page 1)

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Slight irritant effect on eyes.

Slight irritant effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

Indication of any immediate medical attention and special treatment needed:

No relevant information available.

## 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture No relevant information available.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment as required.

Particular danger of slipping on leaked/spilled product.

#### · Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, 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).

Dispose of the collected material according to regulations.

### 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

(Cont'd. on page 3)

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## **Safety Data Sheet**

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

Trade name: Bar's Leaks® Cooling System Repair Left Side

(Cont'd. of page 2)

- ·Handling
- · Precautions for safe handling:

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Keep out of reach of children.

- Conditions for safe storage, including any incompatibilities
- · Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with acids.

· Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

- · 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.

- Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Avoid breathing mist, vapors, or spray.

- Engineering controls: No relevant information available.
- Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For large spills, respiratory protection may be advisable.

Protection of hands:

Wear protective gloves to handle contents of damaged or leaking units.

Gloves are advised for repeated or prolonged contact.

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

- Eye protection: Follow relevant national guidelines concerning the use of protective eyewear.
- · Body protection:

Protective work clothing

Protection may be required for spills.

- Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

## 9 Physical and chemical properties

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

Trade name: Bar's Leaks® Cooling System Repair Left Side

		(Cont'd. of pag
Information on basic physical a	and chemical properties	
Appearance:	r r r	
Form:	Viscous	
Color:	Gray	
Odor:	Slight	
Odor threshold:	Not determined.	
pH-value:	Alkaline	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Product is not flammable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	1.0-1.1	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

# 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions Reacts with strong acids and oxidizing agents.
- · Conditions to avoid Excessive heat.
- · Incompatible materials Acids.
- Hazardous decomposition products

(Cont'd. on page 5)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

Trade name: Bar's Leaks® Cooling System Repair Left Side

(Cont'd. of page 4)

Under fire conditions only: Carbon monoxide and carbon dioxide Silicon oxides.

## 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin:

Slight irritant effect on skin and mucous membranes.

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

· On the eye:

Slight irritant effect on eyes.

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

- · Sensitization: Based on available data, the classification criteria are not met.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer):

Present in trace quantities.

Reference to titanium dioxide is based on unbound respirable particles and is not applicable to the product as supplied.

13463-67-7 Titanium dioxide

2B

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

# 12 Ecological information

- ·Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.

(Cont'd. on page 6)

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# **Safety Data Sheet**

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

Trade name: Bar's Leaks® Cooling System Repair Left Side

(Cont'd. of page 5)

## · Additional ecological information

#### · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· Other adverse effects No relevant information available.

## 13 Disposal considerations

#### · Waste treatment methods

#### · Recommendation:

Smaller quantities can be disposed of with household waste.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

### Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

14 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.	
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Environmental hazards · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		

## 15 Regulatory information

(Cont'd. on page 7)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

Trade name: Bar's Leaks® Cooling System Repair Left Side

(Cont'd. of page 6)

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

Present in trace quantities.

Reference to titanium dioxide is based on unbound respirable particles and is not applicable to the product as supplied.

13463-67-7 Titanium dioxide

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

Present in trace quantities.

Reference to titanium dioxide is based on unbound respirable particles and is not applicable to the product as supplied.

13463-67-7 Titanium dioxide

2B

#### 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.

- Date of preparation / last revision August 06, 2019 / -
- Abbreviations and acronyms:

ADR: 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

(Cont'd. on page 8)

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# **Safety Data Sheet**

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

#### Trade name: Bar's Leaks® Cooling System Repair Left Side

(Cont'd. of page 7)

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

#### · Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by: ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

## 1 Identification

· Product identifier

· Trade name: Bar's Leaks® Cooling System Repair Right Side

· Product code: 1150

· Recommended use and restriction on use

· Recommended use: Anti-Leak product for radiators.

Restrictions on use: No relevant information available.

Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier:

Bar's Products P.O. Box 187 Holly, MI 48442 USA Phone: (810) 603-1321



Emergency telephone number:

ChemTel Inc.

(800)255-3924 (North America)

+1 (813)248-0585 (International)

## 2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

- Label elements
- GHS label elements Not regulated.
- Hazard pictograms: Not regulated.
- · Signal word: Not regulated.
- Hazard statements: Not regulated.
- · Precautionary statements: Not regulated.
- Other hazards There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Components: None in reportable quantities.

#### 4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Clean with water and soap.

If skin irritation is experienced, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

(Cont'd. on page 2)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

## Trade name: Bar's Leaks® Cooling System Repair Right Side

(Cont'd. of page 1)

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

May cause gastro-intestinal irritation if ingested.

Indication of any immediate medical attention and special treatment needed:

No relevant information available.

## 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture No relevant information available.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protective equipment as required.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, 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).

Dispose of the collected material according to regulations.

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:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

Information about storage in one common storage facility:

(Cont'd. on page 3)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

## Trade name: Bar's Leaks® Cooling System Repair Right Side

(Cont'd. of page 2)

Store away from foodstuffs.

Store away from oxidizing agents.

· Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

- · 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.

- Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid breathing mist, vapors, or spray.

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

- · Engineering controls: No relevant information available.
- **Breathing equipment:**

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

For large spills, respiratory protection may be advisable.

· Protection of hands:

Wear protective gloves to handle contents of damaged or leaking units.

Gloves are advised for repeated or prolonged contact.

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

- **Eye protection:** Follow relevant national guidelines concerning the use of protective eyewear.
- · Body protection:

Protective work clothing

Protection may be required for spills.

- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

### 9 Physical and chemical properties

Information on basic physical and chemical properties

· Appearance:

Form: Liquid Blue Odor: Light

· Odor threshold: Not determined.

· pH-value: 7.0-8.0

Melting point/Melting range:
 Boiling point/Boiling range:
 Not determined.
 Not determined.

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

Trade name: Bar's Leaks® Cooling System Repair Right Side

		(Cont'd. of pag
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	0.98-1.02	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No relevant information available.	

## 10 Stability and reactivity

- · **Reactivity:** No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- Possibility of hazardous reactions Reacts with strong acids and oxidizing agents.
- · Conditions to avoid Excessive heat.
- · Incompatible materials Strong acids
- · Hazardous decomposition products Possible in traces.

## 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- On the skin: Based on available data, the classification criteria are not met.
- On the eye: Based on available data, the classification criteria are not met.

(Cont'd. on page 5)

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

## Trade name: Bar's Leaks® Cooling System Repair Right Side

(Cont'd. of page 4)

- · Sensitization: No sensitizing effects known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

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#### NTP (National Toxicology Program):

Present in trace quantities.

None of the ingredients are listed.

K

#### · OSHA-Ca (Occupational Safety & Health Administration):

Present in trace quantities.

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

## 12 Ecological information

- ·Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · **Mobility in soil:** No relevant information available.
- Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

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# **Safety Data Sheet**

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

Trade name: Bar's Leaks® Cooling System Repair Right Side

(Cont'd. of page 5)

- **Uncleaned packagings**
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
· UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
· Transport hazard class(es)	
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
· Environmental hazards · Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

- · Proposition 65 (California)
- Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

(Cont'd. on page 7)

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## **Safety Data Sheet**

according to OSHA HCS (29CFR 1910.1200)

Revision: August 06, 2019

## Trade name: Bar's Leaks® Cooling System Repair Right Side

(Cont'd. of page 6)

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

|1|

#### 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.

· Date of preparation / last revision August 06, 2019 / -

#### · Abbreviations and acronyms:

ADR: 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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

#### Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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