

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

073361920

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

073361912 073362894

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**U.S. Department of Labor**  
Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

**IDENTITY (as Used on Label and List)**  
**KREX® Z.O.E. IMPRESSION**  
**CORRECTIVE PASTE**

*Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.*

**Section I**

Manufacturer's name <b>Water Pik, Inc.</b>	Emergency Telephone Number <b>800/424-9300 (24 Hr. CHEMTREC)</b>
Address (Number, Street, City, State and ZIP Code) <b>1730 East Prospect Road</b>	Telephone Number for Information <b>800/525-2020 (8 am- 4pm MST)</b>
<b>Fort Collins, CO 80553-0001</b>	Date Effective <b>02/12/2013</b>
	Product Code <b>015100-000, 015101-000, 015102-000, 015103-000, 015105-000, 015106-000</b>

**Section II—Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s)) Note: 1 Given as TWA	OSHA PEL <sup>1</sup>	ACGIH TLV <sup>1</sup>	NIOSH REL <sup>1</sup>	% (Volume)
Zinc Oxide (CAS No.: 1314-13-2) <i>Exposure limits as total dust</i>	15 ppm	10 ppm	5 ppm	0-87%
Polypale Resin (CAS No.: 65997-05-9)				0-32%
Talc (CAS No.: 14807-98-8)	20 <sup>mg/m<sup>3</sup></sup>	2 ppm	2 ppm	0-17%
Cottonseed Oil (CAS No.: 8001-29-4)				0-13%
Eugenol (CAS No.: 97-53-0)				0-10%
Linseed Fatty Acid (CAS No.: 68424-45-3)				0-7%
Petrolatum White (CAS No.: 8009-03-8)				0-7%
Paraffin (CAS No.: 8002-74-2) <i>Exposure limits as fume</i>		2 ppm	2 ppm	0-4%
Olive Oil (CAS No.: 8001-25-0)				< 3%
Acetic Acid (CAS No.: 64-19-7)	25 ppm	25 ppm	25 ppm	0-1%

**Section III—Physical/Chemical Characteristics**

Boiling Point (°F)	Not Determined	Specific Gravity (H <sub>2</sub> O = 1)	1-3
Vapor Pressure (mm Hg)	Not Determined	Melting Point	Not Determined
Vapor Density (AIR = 1)	Not Determined	Evaporation Rate (Butyl Acetate = 1)	Not Determined

Solubility in Water **Not Soluble**

Appearance and Odor **A two part mixture which forms a tan paste, with a clove-like odor.**

**Section IV—Fire and Explosion Hazard Data**

Flash Point (Method Used) <b>365 °F (open cup)</b>	Flammable Limits	LEL Not Determined	UEL Not Determined
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Extinguishing Media **Water, foam, halon, carbon dioxide, dry chemical**

Special Fire Fighting Procedures **Remove containers from heat/ignition sources. Keep containers cool. Use full bunker gear with SCBA. For large quantities use chemical resistant equipment. Prevent releases to environment.**

Unusual Fire and Explosion Hazards **This product is not combustible. Combustion by-products may produce irritating vapors.**

**NFPA Hazard Codes: Health-1, Flammability-0, Reactivity-0, Special-None**

FCP-70-0281-001 Rev. Date 04/04/00

OSHA 174 Sept 1985

This document has been made to satisfy requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200). The information set forth herein has been prepared with reasonable care and is based on data currently available that Water Pik, Inc. believes to be reliable. However, we make no representation or warranties, expressed or implied of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein or the product to which the information refers. In no event will Water Pik, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein and we assume no liability resulting from its use or regarding the suitability of this information for the user's intended purposes or for the consequences of its use. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Water Pik, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if Water Pik, Inc. has been advised of the possibility of such damages. The user assumes the risk in the use of this material.

**Section V—Reactivity Data**

Stability	Unstable	NA	Conditions to Avoid	Sources of heat/ignition, extreme temperatures, incompatibles.
	Stable	YES		
Incompatibility (Materials to Avoid)	Strong oxidizers (e.g. chlorine, oxygen, bromine, pentafluoride, nitrogen trifluoride).			
Hazardous Decomposition or Byproducts	Combustion by-products (e.g. carbon monoxide, carbon dioxide, zinc oxides).			
Hazardous Polymerization	May Occur	NA	Conditions to Avoid	NA
	Will Not Occur	YES		

**Section VI—Health Hazard Data**

Route(s) of Entry	Inhalation?	YES	Skin?	YES	Ingestion?	YES
Health Hazards (Acute and Chronic) Mild to moderate irritation to skin, eyes, lungs and mucous membranes. Overexposure can cause eye stinging, dermatitis, abdominal pain, nausea, diarrhea, coughing, sneezing, nasal congestion, muscular pain, and liver damage.						
Carcinogenicity	NTP?	See Below	IARC Monographs?	See Below	OSHA Regulated?	See Below
Zinc Oxide (EPA-D), and Taic (IARC-3) are listed. (all not classifiable as to carcinogenicity to humans)						

Signs and Symptoms of Exposure: Eyes; redness & pain. Skin; mild-moderate irritation. Ingestion; mild pain, nausea, diarrhea. Inhalation; mild-moderate irritation to nose, mouth & throat.

Medical Conditions: Generally Aggravated by Exposure Pre-existing respiratory conditions, eye or skin disorders may be aggravated.

Emergency and First Aid Procedures: Remove contaminated clothing. Flush skin or eyes with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. If ingested, do not induce vomiting. Get medical attention.

**Section VII—Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled: Clear the affected area and protect people. For incidental releases and if safe to do so; use personal protective equipment (see Section VIII), remove containers from heat sources, attempt to stop the flow of spilled material, absorb spilled material with inert material (e.g. dry clay, earth, polypads), place residue in chemical resistant containers, decontaminate with soapy water. For large releases initiate an emergency response using HAZWOPER trained personnel.

Waste Disposal Method: Dispose of waste according to U.S. Federal, State and local regulations.

U. S. EPA WASTE No: Not Applicable

Precautions to be Taken in Handling and Storing: Employees who handle this product need to be trained to safely use it. Ensure containers are free from damage and properly labeled. Post warning signs, use non-sparking tools, bond/ground containers, maintain emergency equipment nearby, keep containers in a cool, dry location, away from direct sunlight, incompatible chemicals, sources of heat/ignition, or where freezing may occur. Do not allow this product to contaminate the environment; may be harmful or fatal to plant and animal life.

Transport	U.S. DOT Proper Shipping Name: Not Applicable			
Information	Hazard Class	Not Applicable	UN Identification No.	Not Applicable
	Packing Group	Not Applicable	HAZARDOUS No.	Not Applicable

**Section VIII—Control Measures**

Respiratory Protection (Specify Type): Determine hazards and use NIOSH certified respirators as required by OSHA.

Ventilation	Local Exhaust	YES -Vent fumes, Control exhaust	Special	NA
	Mechanical (General)	YES-Vent fumes, Control exhaust	Other	Observe air quality control requirements.

Protective Gloves: YES-Rubber, Nitrile, Neoprene

Eye Protection: YES-Chemical Safety Glasses/Goggles

Other Protective Clothing or Equipment: YES-Chemical protective clothing.

Work Hygiene Practices: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash before/after handling this product. Use in a well ventilated area. Observe all safety and environmental regulations.

**SECTION 1: IDENTIFICATION**

**Product Identifier**

**Product Name:** KREX® Z.O.E. IMPRESSION PASTE

**Product Code:** 015100-000, 015101-000, 015102-000

**Intended Use of the Product**

Designed for use in the preparation of full or partial denture impressions in a custom tray or as a wash. Type II Medium-Bodied.

**Name, Address, and Telephone of the Responsible Party**

**Company**

Water Pik, Inc.  
1730 East Prospect Road  
Fort Collins, CO 80553-0001  
800/525-2020 (8 am- 4pm MST)

**Emergency Telephone Number**

**Emergency Number** : 800/424-9300 (24 Hr: CHEMTREC)

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture**

**Classification (GHS-US)**

Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
Skin Sens. 1 H317  
STOT RE 2 H373  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

**Label Elements**

**GHS-US Labeling**

**Hazard Pictograms (GHS-US)**



**Signal Word (GHS-US)**

: Warning

**Hazard Statements (GHS-US)**

: H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

**Precautionary Statements (GHS-US)**

: P260 - Do not breathe vapors, mist, spray.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective clothing, protective gloves, eye protection.  
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.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see Section 4).  
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.  
P391 - Collect spillage.

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P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Zinc oxide	(CAS No) 1314-13-2	0.1 to 1, 1 to 5, 5 to 10, 10 to 30, 30 to 60, or 60 to 87	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Rosin, polymerized	(CAS No) 65997-05-9	0.1 to 1, 1 to 5, 5 to 10, 10 to 30, or 30 to 32	Not classified
Talc	(CAS No) 14807-96-6	0.1 to 1, 1 to 5, 5 to 10, or 10 to 17	Comb. Dust STOT RE 2, H373
Cottonseed oil	(CAS No) 8001-29-4	0.1 to 1, 1 to 5, 5 to 10, or 10 to 13	Not classified
Eugenol	(CAS No) 97-53-0	0.1 to 1, 1 to 5, or 5 to 10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Fatty acids, linseed-oil	(CAS No) 68424-45-3	0.1 to 1, 1 to 5, or 5 to 7	Not classified
Petrolatum	(CAS No) 8009-03-8	0.1 to 1, 1 to 5, or 5 to 7	Not classified
Paraffin waxes and Hydrocarbon waxes	(CAS No) 8002-74-2	0.1 to 1 or 1 to 4	Comb. Dust
Olive oil	(CAS No) 8001-25-0	0.1 to 1 or 1 to 3	Not classified
Acetic acid	(CAS No) 64-19-7	0.1 to 1	Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

More than one of the ranges of concentration prescribed by Controlled Products Regulations has been used where necessary, due to varying composition.

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Call a POISON CENTER or doctor/physician if you feel unwell. Keep at rest and in a position comfortable for breathing.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation persists. Wash with plenty of soap and water.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting.

### Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

**Inhalation:** May cause respiratory irritation. Inhalation of fumes may cause metal fume fever.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Repeated or prolonged inhalation may damage lungs.

### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

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### SECTION 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

**Hazardous Combustion Products:** Irritating fumes. Oxides of zinc and carbon. Hydrocarbons. If heated to the point of fume generation zinc fumes may cause metal fume fever.

**Reference to Other Sections** Refer to section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Do not allow product to spread into the environment.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** As an immediate precautionary measure, isolate spill or leak area in all directions. Avoid generation of dust during clean-up of spills.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Contact competent authorities after a spill.

**Reference to Other Sections** See heading 8, Exposure Controls and Personal Protection.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for Safe Handling

**Additional Hazards When Processed:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash contaminated clothing before reuse.

#### Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Specific End Use(s)** Designed for use in the preparation of full or partial denture impressions in a custom tray or as a wash. Type II Medium-Bodied.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

Zinc oxide (1314-13-2)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

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<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (STEL) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup>
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Manitoba</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total mass)
<b>Northwest Territories</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total mass)
<b>Ontario</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Québec</b>	VECD (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup>
<b>Yukon</b>	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
<b>Talc (14807-96-6)</b>		
<b>USA ACGIH</b>	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Quartz)
<b>USA IDLH</b>	US IDLH (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup> (containing no asbestos and <1% quartz)
<b>Alberta</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Manitoba</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>New Brunswick</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Nova Scotia</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Nunavut</b>	OEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (total mass)
<b>Northwest Territories</b>	OEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (total mass)
<b>Ontario</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica)
<b>Prince Edward Island</b>	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Québec</b>	VEMP (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>

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Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m <sup>3</sup> )	20 mppcf
<b>Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Manitoba	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Nunavut	OEL STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Nunavut	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Acetic acid (64-19-7)</b>		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA ACGIH	ACGIH STEL (ppm)	15 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	37 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	15 ppm
USA IDLH	US IDLH (ppm)	50 ppm
Alberta	OEL STEL (mg/m <sup>3</sup> )	37 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	15 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	10 ppm
British Columbia	OEL STEL (ppm)	15 ppm
British Columbia	OEL TWA (ppm)	10 ppm
Manitoba	OEL STEL (ppm)	15 ppm
Manitoba	OEL TWA (ppm)	10 ppm
New Brunswick	OEL STEL (mg/m <sup>3</sup> )	37 mg/m <sup>3</sup>
New Brunswick	OEL STEL (ppm)	15 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	10 ppm
Newfoundland & Labrador	OEL STEL (ppm)	15 ppm
Newfoundland & Labrador	OEL TWA (ppm)	10 ppm
Nova Scotia	OEL STEL (ppm)	15 ppm
Nova Scotia	OEL TWA (ppm)	10 ppm
Nunavut	OEL STEL (mg/m <sup>3</sup> )	39 mg/m <sup>3</sup>
Nunavut	OEL STEL (ppm)	15 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	26 mg/m <sup>3</sup>



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Nunavut	OEL TWA (ppm)	10 ppm
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	39 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (ppm)	15 ppm
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	26 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (ppm)	10 ppm
Ontario	OEL STEL (ppm)	15 ppm
Ontario	OEL TWA (ppm)	10 ppm
Prince Edward Island	OEL STEL (ppm)	15 ppm
Prince Edward Island	OEL TWA (ppm)	10 ppm
Québec	VECD (mg/m <sup>3</sup> )	37 mg/m <sup>3</sup>
Québec	VECD (ppm)	15 ppm
Québec	VEMP (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
Québec	VEMP (ppm)	10 ppm
Saskatchewan	OEL STEL (ppm)	15 ppm
Saskatchewan	OEL TWA (ppm)	10 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	43 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	25 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	10 ppm

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wash contaminated clothing before reuse.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Tan. Base: Red, Hardener: White
Odor	: Clove-like
Odor Threshold	: Not available
pH	: Not available
Evaporation Rate	: Not available
Freezing/Melting Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Upper/Lower Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available

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<b>Specific Gravity</b>	: 1 - 3
<b>Solubility</b>	: Not soluble in water
<b>Partition Coefficient: N-octanol/water</b>	: Not available
<b>Viscosity</b>	: Not available
<b>Explosion Data – Sensitivity to Mechanical Impact</b>	: Not expected to present an explosion hazard due to mechanical impact.
<b>Explosion Data – Sensitivity to Static Discharge</b>	: Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

- Reactivity:** Hazardous reactions will not occur under normal conditions.
- Chemical Stability:** The product is stable at normal handling and storage conditions.
- Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- Conditions to Avoid:** Extremely high or low temperatures. Sources of ignition. Incompatible materials.
- Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- Hazardous Decomposition Products:** None known.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

- Acute Toxicity:** Not classified
- LD50 and LC50 Data:** Not available
- Skin Corrosion/Irritation:** Causes skin irritation.
- Serious Eye Damage/Irritation:** Causes serious eye irritation.
- Respiratory or Skin Sensitization:** May cause an allergic skin reaction.
- Germ Cell Mutagenicity:** Not classified
- Teratogenicity:** Not available
- Carcinogenicity:** Not classified
- Specific Target Organ Toxicity (Repeated Exposure):** May cause damage to organs through prolonged or repeated exposure.
- Reproductive Toxicity:** Not classified
- Specific Target Organ Toxicity (Single Exposure):** Not classified
- Aspiration Hazard:** Not classified
- Symptoms/Injuries After Inhalation:** May cause respiratory irritation. Inhalation of fumes may cause metal fume fever.
- Symptoms/Injuries After Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.
- Symptoms/Injuries After Eye Contact:** Causes serious eye irritation.
- Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.
- Chronic Symptoms:** Repeated or prolonged inhalation may damage lungs.

#### Information on Toxicological Effects - Ingredient(s)

##### LD50 and LC50 Data:

<b>Zinc oxide (1314-13-2)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
<b>Eugenol (97-53-0)</b>	
LD50 Oral Rat	1930 mg/kg
<b>Petrolatum (8009-03-8)</b>	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 2000 mg/kg read across
LD50 Dermal Rabbit	3600 mg/kg
<b>Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b>	
LD50 Oral Rat	> 3750 mg/kg
LD50 Dermal Rabbit	> 3600 mg/kg
<b>Acetic acid (64-19-7)</b>	
LD50 Oral Rat	3310 mg/kg
LD50 Dermal Rabbit	1060 µl/kg
LC50 Inhalation Rat	11.4 mg/l/4h

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<b>Talc (14807-96-6)</b>	
<b>IARC Group</b>	3
<b>National Toxicity Program (NTP) Status</b>	Evidence of Carcinogenicity, Twelfth Report - Items under consideration.
<b>Eugenol (97-53-0)</b>	
<b>IARC Group</b>	3

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

<b>Zinc oxide (1314-13-2)</b>	
<b>LC50 Fish 1</b>	780 µg/l (Exposure time: 96 h - Species: Pimephales promelas)
<b>EC50 Daphnia 1</b>	0.122 mg/l
<b>NOEC chronic fish</b>	0.026 mg/l (Species: Jordanella floridae)
<b>Talc (14807-96-6)</b>	
<b>LC50 Fish 1</b>	> 100 g/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
<b>Petrolatum (8009-03-8)</b>	
<b>LC50 Fish 1</b>	> 1000 mg/l LLO; insoluble in water
<b>NOEC (chronic)</b>	> 1000 mg/l
<b>NOEC chronic fish</b>	> 1000 mg/l
<b>Acetic acid (64-19-7)</b>	
<b>LC50 Fish 1</b>	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>EC50 Daphnia 1</b>	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>LC 50 Fish 2</b>	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

### Persistence and Degradability

Not established. May cause long-term adverse effects in the environment.

### Bioaccumulative Potential

<b>KREX® Z.O.E. IMPRESSION PASTE</b>	
<b>Bioaccumulative Potential</b>	Not established.
<b>Talc (14807-96-6)</b>	
<b>BCF Fish 1</b>	(no known bioaccumulation)
<b>Petrolatum (8009-03-8)</b>	
<b>Log Pow</b>	> 6 Calculated
<b>Acetic acid (64-19-7)</b>	
<b>Log Pow</b>	-0.31 (at 20 °C)

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**Ecology – Waste Materials:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

### In Accordance with DOT

Not regulated for transport

### In Accordance with IMDG

Not regulated for transport

### In Accordance with IATA

Not regulated for transport

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### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

<b>KREX® Z.O.E. IMPRESSION PASTE</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard
<b>Zinc oxide (1314-13-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Rosin, polymerized (65997-05-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Talc (14807-96-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Cottonseed oil (8001-29-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.
<b>Eugenol (97-53-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Fatty acids, linseed-oil (68424-45-3)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>EPA TSCA Regulatory Flag</b>	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.
<b>Petrolatum (8009-03-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Olive oil (8001-25-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Acetic acid (64-19-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

#### US State Regulations

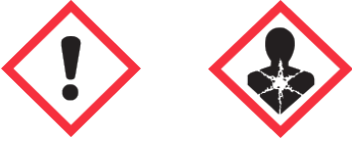
<b>Zinc oxide (1314-13-2)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Talc (14807-96-6)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Cottonseed oil (8001-29-4)</b>	
U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List	
<b>Acetic acid (64-19-7)</b>	
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Pennsylvania - RTK (Right to Know) List	

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### Canadian Regulations

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WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
	
<b>Zinc oxide (1314-13-2)</b>	
Listed on the Canadian DSL (Domestic Substances List), Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Rosin, polymerized (65997-05-9)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Talc (14807-96-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
<b>Cottonseed oil (8001-29-4)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Eugenol (97-53-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Fatty acids, linseed-oil (68424-45-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Petrolatum (8009-03-8)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Paraffin waxes and Hydrocarbon waxes (8002-74-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Olive oil (8001-25-0)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
<b>Acetic acid (64-19-7)</b>	
Listed on the Canadian DSL (Domestic Substances List), Listed on the Canadian IDL (Ingredient Disclosure List)	
IDL Concentration 1 %	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 09/17/2018  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1

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Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H226	Flammable liquid and vapor
Comb. Dust	May form combustible dust concentrations in air
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

### Party Responsible for the Preparation of This Document

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*