

SECTION 1: PRODUCT IDENTIFICATION

Product:	BZK Prep Pads and Towelette
Product Label Name:	BZK Prep Pads and Towelette
CAS#:	(Benzyl-C12-18-Alkyldimethyl) 68391-01-5
EC#:	(Benzyl-C12-18-Alkyldimethyl) 269-919-4
Relevant Product Use:	First Aid Antiseptic
Company Name and Address:	Dukal, LLC 2 Fleetwood Court Ronkonkoma, NY 11779
Emergency Telephone Number:	631-656-3800
Contact Outside USA:	+1-800-243-0741 QA-RA-NY@dukak.com
Last Revision Date:	13-April-2023

SECTION 2: HAZARDOUS IDENTIFICATION

Hazard Class/Category:	Eye Irritant – 2B Skin Irritant – 3
Hazard Symbol:	No Symbol
Signal Word:	Warning
Hazard Statements:	Causes eye irritation (H320) Causes mild skin irritation (H316)
Precautionary statements:	
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention. (P305+P351) (P337+P313)
Skin:	If skin irritation occurs: Wash with plenty of soap and water.

(P332+P352)

SECTION 3: INFORMATION ON INGREDIENTS

Ingredient list	Cas #	Concentration%(v/v)
BZK 50 NF	68391-01-5	0.133%
Sodium bicarbonate	144-55-8	Trade Secret
Purified Water	7732-18-5	Trade Secret

SECTION 4: FIRST-AID MEASURES**First aid procedures**

Inhalation:	Not a normal route of exposure. May cause respiratory tract irritation.
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Target organs:	Eyes. Skin.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Overexposure:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Eye contact:	Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
Skin contact:	In case of skin irritation, wash with plenty of soap and water. Discontinue use of product.
Inhalation:	Not a normal route of exposure. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion: Not a normal route of exposure. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Note to Physician: Symptoms may be delayed.

General Advice: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children. Avoid contact with eyes.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable properties Not regulated as a flammable substance

Suitable extinguishing media Treat for surrounding material

Specific hazards arising from the chemical: Not available

Protective equipment for firefighters Firefighters should wear full protective clothing including self-contained breathing apparatus.

Hazardous combustion products May include and are not limited to: Oxides of carbon, Hydrogen chloride

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Pick up with and discard towel.

SECTION 7: HANDLING AND STORAGE

Handling Use good industrial hygiene practices in handling this material.

Storage

Keep out of reach of children. Store in a closed container away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS**Engineering controls**

General ventilation normally adequate.

Personal protective equipment**Eye / face protection**

Follow standard industrial hygiene practices.

Hand protection

Not generally required.

Skin and body protection

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Physical State:**

Non-woven cloth saturated with liquid

Appearance

Liquid saturated on wipe

Color

Clear liquid

Form

Liquid saturated on wipe

Odor

Characteristic

Physical state

Solid

pH

7.0004

Melting point

Not available

Freezing point

Not available

Boiling point

101.11 °C (214 °F)

Specific gravity

1.00 (liquid)

Octanol/water coefficient

Not available

Solubility (H2O)

Complete Solubility (BZK 50 NF), None (Non-Woven Cloth)

VOC (Weight %)

No Volatile Organic Compounds Present

Viscosity

0.01p

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Hydrogen chloride.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION**Effects of acute exposure**

Eye	May cause irritation.
Skin	In case of skin irritation, discontinue use of the product.
Inhalation	Not a normal route of exposure. May cause respiratory tract irritation.
Ingestion	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
Sensitization	None Documented
Chronic effects	None Documented
Carcinogenicity	None Documented
Mutagenicity	None Documented
Reproductive effects	None Documented
Teratogenicity	None Documented

SECTION 12: ECOLOGICAL INFORMATION

None Available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal instructions	Discard after single use. Review federal, state/provincial, and local government requirements prior to disposal. Discard with solid waste. Dispose in accordance with all applicable regulations.
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SECTION 14: TRANSPORTATION INFORMATION

<u>DOT</u>	Not Regulated by Transportation Authority as Hazardous Material
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UN (EU: ADR/RID/ADN)

Not Regulated by Transportation Authority as Hazardous Material

IATA/ ICAO

Not Regulated by Transportation Authority as Hazardous Material

IMDG/ IMO

Not Regulated by Transportation Authority as Hazardous Material

SECTION 15: REGULATORY INFORMATION

No applicable regulatory information

SECTION 16: OTHER INFORMATION**Issue Date:** 03-26-2014**Revision Date:** 04-13-2023**Disclaimer:**

The information provided in this SDS is correct and is to the best of our knowledge, at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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1. Identification

Product identifier used on the label

Arctic Gel 1010

Recommended use of the chemical and restriction on use

Recommended use*: Absorbent

Suitable for use in industrial sector: chemical industry

* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: polyacrylic acid, sodium salt, crosslinked

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Combustible Dust Combustible Dust (1) Combustible Dust

Label elements

Signal Word:

Warning

Hazard Statement:

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May form combustible dust concentration in air.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

CAUTION:
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

This product does not contain any components classified as hazardous under the referenced regulation.

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
Trade Secret	>= 95.0 %	Proprietary acrylic polymer

4. First-Aid Measures

Description of first aid measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention. Assist in breathing if necessary.

If on skin:
Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

If swallowed:
Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Indication of any immediate medical attention and special treatment needed

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Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:
carbon dioxide, water jet

Additional information:
Avoid whirling up the material/product because of the danger of dust explosion.

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
Burning produces harmful and toxic fumes.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental release measures

Further accidental release measures:

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

Personal precautions, protective equipment and emergency procedures

Breathing protection required. Avoid dust formation.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Nonsparking tools should be used.

7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

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Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid the formation and deposition of dust.

Protection against fire and explosion:

Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container dry because product takes up the humidity of air.

Keep container tightly closed and dry; store in a cool place.

The packed product is not damaged by low temperatures or by frost.

The packed product will not be damaged by high temperatures.

8. Exposure Controls/Personal Protection

Advice on system design:

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

9. Physical and Chemical Properties

Form: granules
Odour: odourless
Colour: white
pH value: approx. 6.0
glass transition temperature: approx. 140 °C

(approx. 101.3 hPa) The substance / product decomposes. The product has not been tested.

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Bulk density:	approx. 700 kg/m3
Thermal decomposition:	No decomposition if used as directed.
Solubility in water:	insoluble, only capable of swelling

10. Stability and Reactivity

Reactivity

Corrosion to metals:
No corrosive effect on metal.

Minimum ignition energy:

The product is capable of dust explosion.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid

Avoid humidity.

Incompatible materials

water

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon monoxide, carbon dioxide, hydrocarbons

Thermal decomposition:

No decomposition if used as directed.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

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Dermal

Type of value: LD50
Species: rat
Value: > 2,000 mg/kg

Irritation / corrosion

Assessment of irritating effects: Ingestion may cause irritation of the gastrointestinal tract. Contact with powders or dusts may irritate the eyes, skin and respiratory tract.

Skin

Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye

Species: rabbit
Result: non-irritant
Method: OECD Guideline 405

Sensitization
No sensitizing effect.

Chronic Toxicity/Effects

Carcinogenicity

Information on: Superabsorber sodium salt

Assessment of carcinogenicity: A chronic (2-year) lifetime inhalation study in rats with respirable superabsorber polymer dust (micronized to < 10 µm diameter) resulted in a non-specific inflammatory response in the lungs followed by tumor development in some rats in the highest chronic exposure level of 0.8 mg/m³. In the absence of chronic inflammation, tumours are not expected.

Other Information

The statement was derived from products of similar composition.

Symptoms of Exposure

No significant symptoms are expected due to the non-classification of the product.

12. Ecological Information

Toxicity

Toxicity to fish

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203, static)

Aquatic invertebrates

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Aquatic plants

EC50 (72 h) > 100 mg/l, Desmodemus subspicatus (OECD Guideline 201)
Nominal concentration.

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Soil living organisms

Toxicity to soil dwelling organisms:
LC50 > 1,000 mg/kg, Eisenia foetida (OECD Guideline 207)

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is not expected.

Additional information

The product contains: <= 20 (W/W) PPM total amount of heavy metal as Pb

Add. remarks environm. fate & pathway:

Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

Other ecotoxicological advice:

Do not release untreated into natural waters. The ecotoxic effect of the product has not been tested.
The information on this was derived from products of similar structure or composition.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with local authority regulations. Incinerate in a licensed facility. Do not incinerate closed containers. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

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Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Fire (Combustible Dust);

NFPA Hazard codes:

Health : 1 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2015/02/17

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.
END OF DATA SHEET

SaniZide®Plus Germicidal Solution

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SAFETY DATA SHEET**SECTION 1. IDENTIFICATION****Product identifier used on the label**: **SaniZide®Plus Germicidal Solution****Product Code(s)**: 9900010
Premoistened towelette
Canister: 160 Count
Container: 4oz, 8oz, 16oz, 32oz and 1 gallon**Recommended use of the chemical and restrictions on use**: Personal Care Applications
Restriction on use: None known**Chemical family**

: Mixture.

Name, address, and telephone number of the supplier:**Safetec of America, Inc.**887 Kensington Avenue
Buffalo, NY, USA
14215

Supplier's Telephone # : 716-895-1822

24 Hr. Emergency Tel # : 1-800-255-3924**Name, address, and telephone number of the manufacturer:**

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION**Classification of the chemical**

Towelette / pad saturated with clear, colourless liquid. OrClear liquid. Odorless.

This product is sold as a personal care item that is safe for consumers and other users under normal and reasonably foreseeable use. As such, it is not regulated under Hazcom 2012/WHMIS 2015 labeling and SDS requirements do not apply.

Label elements*Signal Word*

Not required

Hazard statement(s)

Not required

Precautionary statement(s)

Not required

Other hazards

Other hazards which do not result in classification :

Direct eye contact may cause slight or mild, transient irritation.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Ethoxylated nonylphenol	Nonylphenol Ethoxylated	9016-45-9	0.53
Alkyl dimethyl benzyl ammonium chloride	Quaternary ammonium compound Benzalkonium chloride	68391-01-5	0.11
alkyl dimethyl ethylbenzyl ammonium chlorides	N/Av	68956-79-6	0.11

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : None required when used as intended. If swallowed, DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.
- Inhalation* : None required when used as intended. If symptoms develop, move victim to fresh air. Get medical attention if symptoms persist.
- Skin contact* : None required when used as intended. If irritation or symptoms develop, seek medical attention.
- Eye contact* : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

- : None expected, when used as intended. Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Water. Water spray. Dry chemicals. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media

- : Do not use water jet as extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Burning may produce irritating, toxic and obnoxious fumes.

Flammability classification (OSHA 29 CFR 1910.106)

- : Not flammable.

Hazardous combustion products

- : Carbon oxides. Hydrogen chloride

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : None known.

Special fire-fighting procedures

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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: Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Environmental precautions : Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleaning up

: Wipe up with absorbent material (e.g. cloth, fleece).

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Avoid contact with eyes.

Conditions for safe storage : Keep container tightly closed. Keep cool. Store away from incompatible materials.

Incompatible materials : Strong oxidizing agents. Acids.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:			
Chemical Name	ACGIH TLV		OSHA PEL
	TWA	STEL	PEL STEL
Ethoxylated nonylphenol	N/Av	N/Av	N/Av N/Av
Alkyl dimethyl benzyl ammonium chloride	N/Av	N/Av	N/Av N/Av
alkyl dimethyl ethylbenzyl ammonium chlorides	N/Av	N/Av	N/Av N/Av

Exposure controls

Ventilation and engineering measures

: Ensure adequate ventilation, especially in confined areas.

Respiratory protection : None required when used as intended.

Skin protection : None required when used as intended.

Eye / face protection : None required when used as intended.

Other protective equipment : None required when used as intended.

General hygiene considerations

: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Towelette / pad saturated with clear, colourless liquid. or Clear liquid.

Odour : Odorless.

Odour threshold : Not available.

pH : 11 - 12

Melting/Freezing point : (-1.1 °C) 30.02 °F

Initial boiling point and boiling range

: (93.33 °C) 200 °F

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Flash point : (93.3 °C) 200.0 °F
Flashpoint (Method) : Seta closed cup
Evaporation rate (BuAe = 1) : Not available.
Flammability (solid, gas) : Not applicable.
Lower flammable limit (% by vol.) : Not available.
Upper flammable limit (% by vol.) : Not available.
Oxidizing properties : Not available.
Explosive properties : Not available.
Vapour pressure : Not available.
Vapour density : > 1
Relative density / Specific gravity : 1.01
Solubility in water : Complete
Other solubility(ies) : Not available.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution : Not available.
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : Not available.
Volatiles (% by weight) : Not available.
Volatile organic Compounds (VOC's) : 0%
Absolute pressure of container : Not available.
Flame projection length : Not available.
Other physical/chemical comments : None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Hazardous polymerization does not occur.
Conditions to avoid : High temperatures.
Incompatible materials : See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products : See Section 5 (Fire Fighting Measures).

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure:**

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : NO
Routes of exposure skin absorption : YES

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Potential Health Effects:
Signs and symptoms of short-term (acute) exposure
Sign and symptoms Inhalation

: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Sign and symptoms ingestion

: No harmful effects expected in amounts likely to be ingested by accident.

Sign and symptoms skin

: None expected, when used as intended.

Sign and symptoms eyes

: None expected, when used as intended. Direct eye contact may cause temporary redness.

Potential Chronic Health Effects

: None expected, when used as intended.

Mutagenicity

: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive effects & Teratogenicity

: This product is not expected to cause reproductive effects.

Sensitization to material

 : This product is not expected to cause respiratory sensitization.
 This product is not expected to cause skin sensitization.

Specific target organ effects : This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Medical conditions aggravated by overexposure

: None reported by the manufacturer.

Synergistic materials

: None reported by the manufacturer.

Toxicological data

:

<u>Chemical name</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ethoxylated nonylphenol	1310mg/kg	N/Av	>2000 mg/kg
Alkyl dimethyl benzyl ammonium chloride	N/Av	N/Av	N/Av
alkyl dimethyl ethylbenzyl ammonium chlorides	N/Av	N/Av	N/Av

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Do not allow material to contaminate ground water system. The product is not classified as environmentally hazardous.

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Ecotoxicity data:

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Ethoxylated nonylphenol	9016-45-9	0.13 mg/L Bluegill (Lepomis macrochirus)	N/Av	N/Av
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	N/Av	N/Av	N/Av
alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Ethoxylated nonylphenol	9016-45-9	4.8 mg/L Water flea (Daphnia magna)	N/Av	N/Av
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	N/Av	N/Av	N/Av
alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethoxylated nonylphenol	9016-45-9	20 mg/L/72hr Green algae (Selenastrum capricornutum)	8 mg/L/72hr Green algae (Selenastrum capricornutum)	N/Av
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	N/Av	N/Av	N/Av
alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	N/Av	N/Av	N/Av

Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Ethoxylated nonylphenol (CAS 9016-45-9)	N/Av	N/Av
Alkyl dimethyl benzyl ammonium chloride (CAS 68391-01-5)	N/Av	N/Av
alkyl dimethyl ethylbenzyl ammonium chlorides (CAS 68956-79-6)	N/Av	N/Av

Mobility in soil

: No data is available on the product itself.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
- Methods of Disposal** : Dispose of in accordance with local regulations. Empty container or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- RCRA** : The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated. None Known.	not regulated	none	
49CFR/DOT Additional information	None.				
ICAO/IATA	None.	Not regulated.	not regulated	none	
ICAO/IATA Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	
IMDG Additional information	None.				

Special precautions for user : None reported by the manufacturer.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: Not established.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

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<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Ethoxylated nonylphenol	9016-45-9	Yes	N/Ap	N/Av	No	N/Ap
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	Yes	N/Ap	N/Av	No	N/Ap
alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Acute Health Hazard

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethoxylated nonylphenol	9016-45-9	No	N/Ap	No	No	No	No	No	No
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	No	N/Ap	No	No	No	No	No	No
alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	No	N/Ap	No	No	No	No	No	No

Canadian Information:

All ingredients are listed on the DSL, or are exempted materials. Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Ethoxylated nonylphenol	9016-45-9	500-024-6	Present	Present	(7)-172	KE-26244	Present	HSR003054; HSNO Approval: HSR006598, HSR006618 (dilution)
Alkyl dimethyl benzyl ammonium chloride	68391-01-5	269-919-4	Present	Present	(3)-2694	KE-00775	Present	HSR003609
alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	273-318-2	Present	Present	No data available.	2001-3-1988	Present	No data available.

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
CA: California
CAS: Chemical Abstract Services
CEPA: Canadian Environmental Protection Act
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

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CFR: Code of Federal Regulations

CPR: Controlled Products Regulation

CSA: Canadian Standards Association

DOT: Department of Transportation

DSL: Domestic Substances List

EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System

HPA: Hazardous Products Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Dangerous Goods

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose

MA: Massachusetts

MN: Minnesota

N/Ap: Not Applicable

N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

PPE: Personal Protective Equipment

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

RQ: Reportable Quantity

RTECS: Registry of Toxic Effects of Chemical Substances

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values

TWA: Time Weighted Average

WEL: Workplace Exposure Limit

WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
- 2. International Agency for Research on Cancer Monographs, searched 2016
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2016(Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - 2016 version.
- 6. California Proposition 65 List - 2016 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2016.

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

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