

Safety data sheet

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BASF Safety data sheet
Date / Revised: 29.02.2024
Product: **TRO C**

Version: 1.1

(30594013/SDS_GEN_VN/EN)

Date of print: 09.03.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:
TRO C

Use: Polymer

Recommended use: Superabsorbent polymer
Not recommended use: Not intended for sale to or use by the general public.

Manufacturer/supplier:
BASF Vietnam Co. Ltd.
Level 23, Deutsches Haus, 33 Le Duan,
Ben Nghe Ward, Dist. 1, Ho Chi Minh City, Vietnam
Telephone: +84 28 3824 3833
Telefax number: +84 28 3824 3832
E-mail address: minh-triet.thieu@basf.com

Emergency information:
18001703 (Vietnam)
Telefax number: +84 28 3824 3832
International emergency number:
Telephone: +49 180 2273-112

2. Hazard identification

Classification of the substance and mixture:
No need for classification according to GHS criteria for this product.

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:

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

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

polyacrylic acid, sodium salt, crosslinked

Hazardous ingredients

2-Propenoic acid, homopolymer, sodium salt

Content (W/W): 95 % - < 100 %

CAS Number: 9003-04-7

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

Note to physician:

Symptoms: (Further) symptoms and / or effects are not known so far

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

5. Fire-Fighting Measures

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.

Specific hazards:

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Dust explosion hazard.

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:
Contaminated extinguishing water must be disposed of in accordance with official regulations. The degree of risk is governed by the burning substance and the fire conditions.

6. Accidental Release Measures

Personal precautions:
Breathing protection required. Avoid dust formation.

Environmental precautions:
Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:
For large amounts: Contain with dust binding material and dispose of.
Dispose of in accordance with national, state and local regulations.

Additional information: Forms slippery surfaces with water.

7. Handling and Storage

Handling
Handle in accordance with good industrial hygiene and safety practice.

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:
The granulate is not capable of a dust explosion. The product contains combustible polymers. The product is not easily combustible and also not self combustible. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Avoid whirling up the material/product because of the danger of dust explosion.

Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s⁻¹).

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

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 and personal protection

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Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with high efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P3 or FFP3).

Hand protection:

nitrile coated cotton gloves (e.g. EN 388, 374)

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

No body protection required if used for intended purpose and satisfying generally accepted industrial hygiene rules.

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
Colour: white to off-white
Odour: almost odourless
Odour threshold: No applicable information available.

pH value: approx. 6.0

glass transition temperature: approx. 140 °C
(approx. 101.3 hPa)
The substance / product
decomposes.

Flash point:
not applicable

Evaporation rate:
The product is a non-volatile solid.

Flammability (solid/gas): not flammable
Lower explosion limit: 100 g/m³
Ignition temperature:
not determined

Thermal decomposition: No decomposition if used as
directed.

Self ignition: No data available.

Minimum ignition energy: > 1 J

Explosion hazard: Product is not explosive, however a
dust explosion could result from an
air / dust mixture.

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Fire promoting properties: Based on its structural properties
the product is not classified as
oxidizing.

Vapour pressure:
not applicable

Relative density:
No data available.
Bulk density: approx. 700 kg/m³

Solubility in water: insoluble, only capable of swelling
Hygroscopy: hygroscopic
Partitioning coefficient n-octanol/water (log Pow):
not applicable

Viscosity, dynamic:
not applicable, the product is a solid
Viscosity, kinematic:
not applicable, the product is a solid

10. Stability and Reactivity

Conditions to avoid:
Avoid humidity.

Thermal decomposition: No decomposition if used as directed.

Substances to avoid:
water

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.

Thermal decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

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

11. Toxicological Information

Routes of exposure

Acute oral toxicity

Experimental/calculated data:
LD₅₀rat (oral): > 2,000 mg/kg

Acute dermal toxicity

LD₅₀ rat (dermal): > 2,000 mg/kg

Assessment of acute toxicity

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Symptoms

(Further) symptoms and / or effects are not known so far

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

No sensitizing effect.

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

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. A safe working level of 0.05 mg/m³ has been established for respirable superabsorbent polymer dust (< 10 µm diameter) by the German MAK commission.

Reproductive toxicity

Assessment of reproduction toxicity:

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

Developmental toxicity

Assessment of teratogenicity:

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

Other relevant toxicity information

The statement was derived from products of similar composition.

12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

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, *Desmodesmus subspicatus* (OECD Guideline 201)

Nominal concentration.

Microorganisms/Effect on activated sludge:

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

Soil living organisms:

LC50 > 1,000 mg/kg, *Eisenia foetida* (OECD Guideline 207)

Mobility

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.

Other adverse effects

Additional information

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

Information on disposal regulations: Must comply with regulations on hazardous waste such as:

- Decree No. 08/2022/ND-CP of the Government: detailing a number of articles of the Law on Environmental Protection.

- Circular No. 02/2022/TT-BTNMT of the Ministry of Natural Resources and Environment: detailing a number of articles of the Law on Environmental Protection.

Must be disposed of or incinerated in accordance with local regulations.
A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage.
Observe national and local legal requirements.

Contaminated packaging:
Uncontaminated packaging can be re-used.
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport Information

Domestic transport:

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

15. Regulatory Information

Other regulations

The SDS is composed based on the Global Harmonization Globally Harmonized System of Classification and Labeling of Chemicals and applicable local chemical regulations as following:

- The Chemical Law 06/2007/QH12 issued on 21/11/2007.
- The decree No. 113/2017/ND-CP specifying and providing guidelines for implementation of certain articles of the law on chemicals.
- The decree No. 82/2022/ND-CP Amendments to some articles of government's decree no.113/2017/ND-CP dated October 09, 2017 specifying and providing guidelines for implementation of certain articles of the law on chemicals.
- Circular 17/2022/TT-BCT Amendments to some articles of circular no. 32/2017/TT-BCT dated December 28, 2017 of the Minister Of Industry And Trade on elaboration and provision of guidelines for implementation of certain articles of the law on chemicals and the government's decree no. 113/2017/ ND-CP dated October 09, 2017 on elaboration and provision of guidelines for implementation of certain articles of the law on chemicals.
- The decree No. 17/2020/ND-CP Amendments to some articles of decrees related to necessary business conditions in fields under the management of the Ministry Of Industry and Trade.
- The decree No. 42/2020/ND-CP on list of dangerous goods, transport of dangerous goods by land motor vehicles and transport of dangerous goods by inland waterways.
- The Circular 32/2017/TT-BCT specifying and providing guidelines for implementation of certain articles of the law on chemicals and the government's decree no. 113/2017/ND-CP dated October 09, 2017 specifying and providing guidelines for implementation of certain articles of the law on chemicals.

16. Other Information

Any other intended applications should be discussed with the manufacturer.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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@dukal.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.

SaniZide®Plus Germicidal Solution

SDS Revision Date (mm/dd/yyyy): 05/02/2024

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SAFETY DATA SHEET**SECTION 1. IDENTIFICATION****Product identifier used on the label**: **SaniZide®Plus Germicidal Solution****Other means of identification** : 9900010

Premoistened towelette

Canister: 160 Count

Container: 4oz, 8oz, 16oz, 32oz and 1 gallon

Recommended use of the chemical and restrictions on use

: Cleaner

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.

The classification below is provided for informational purposes only.

Classification:

Skin Irritation - Category 2

Serious eye damage/eye irritation - Category 2A

Label elements*Hazard pictogram(s)**Signal Word*

Warning!

Hazard statement(s)

Causes skin irritation.

Causes serious eye irritation.

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Precautionary statement(s)

Wash thoroughly after handling.
Wear protective gloves and eye/face protection.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: get medical advice/attention.

Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

The remaining ingredients are either non-hazardous or are below reportable thresholds.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion : None required when used as intended. If swallowed, DO NOT induce vomiting. all 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.

Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin.
Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

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.

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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

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

Special fire-fighting procedures

: Fight fires from a safe distance. Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: 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

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u> <u>STEL</u>
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.

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SAFETY DATA SHEET**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**Physical State** : Liquid**Colour** : Clear**Odour** : Odorless.**Odour threshold** : Not available.**pH** : 11 - 12**Melting Point/Freezing point** : (-1.1 °C) 30.02 °F**Initial boiling point and boiling range**

: (93.33 °C) 200 °F

Flash point : (93.3 °C) 200.0 °F**Flashpoint (Method)** : Seta closed cup**Evaporation rate (BuAe = 1)** : Not available.**Flammability** : Not applicable.**Lower explosion or flammability limit (% by vol.)**

: Not available.

Upper explosion or flammability limit (% by vol.)

: Not available.

Oxidizing properties : Not available.**Explosive properties** : Not available.**Vapour pressure** : Not available.**Relative 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.**Particle characteristics** : Not applicable.**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.

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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** : Strong oxidizing agents. Acids
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

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

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. Causes skin irritation. Symptoms may include a burning sensation, redness, swelling, drying, and cracking of the skin.

Sign and symptoms eyes

- : None expected, when used as intended. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

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 (29 CFR 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

- : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

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<u>Chemical name</u>	<u>LC₅₀(4hr) inh, rat</u>	<u>LD₅₀</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.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC₅₀ / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
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>	<u>CAS #</u>	<u>Toxicity to Daphnia</u>		
		<u>EC₅₀ / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
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>	<u>CAS #</u>	<u>Toxicity to Algae</u>		
		<u>EC₅₀ / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
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

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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	N/Av	N/Av
Alkyl dimethyl benzyl ammonium chloride	N/Av	N/Av
alkyl dimethyl ethylbenzyl ammonium chlorides	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.

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.

RCRA

: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14. TRANSPORT INFORMATION

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

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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.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

<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 Minimis 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: Skin irritation Eye irritation

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:

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Ingredients	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
CAS: Chemical Abstract Services
CEPA: Canadian Environmental Protection Act
CSA: Canadian Standards Association
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
LC: Lethal Concentration
LD: Lethal Dose
N/Ap: Not Applicable
N/Av: Not Available
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
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average

References

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: 02/05/2024

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: 2

Revision Information

: 9. PHYSICAL AND CHEMICAL PROPERTIES

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SAFETY DATA SHEET**DISCLAIMER**

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