

SAFETY DATA SHEET

Section 1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Product Name: BM-9000 Waterline treatment

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use(s): Cleaner

Details of the supplier of the safety data sheet

Manufacturer:	N.A.K.P Foto Inc. 2575 De Miniac Ville Saint Laurent, Quebec H4S 1E5 Canada	Distributor:	B.M. Group Inc. 5890 Monkland Avenue, Suite 16 Montreal Quebec H4A 1G2 Canada
Website:	www.nakpfoto.com	Website :	http://www.bmcanada.ca
Email:	paul@nakpfoto.com	Email:	info@bmcanada.ca
Tel (514) 932-8057		Tel: (514) 738-5200 Toll Free 1-800-561-9818	
Fax (514) 932-8057		Fax: (514) 738-2290	

Emergency telephone number

Emergency contact: 1-800-463-5060 Poison Control Center in Quebec, Canada

Notes:

While this product is generally safe and effective during normal use as per directions on label and as per guidelines in this SDS, this SDS also contains valuable information critical to the safe handling and proper use of the product for large production plants, industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product.

Section 2. Hazards identification

Classification of the substance or mixture

GHS Classification for mixture:

Serious eye irritation - Category 2
Skin irritation - Category 2

Label elements

Pictograms:



Signal Words:

Warning

Hazard Statements:

Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements:

Prevention

Wash your hands thoroughly after handling.

Wear protective gloves, protective clothing, face protection, eye protection.

Response

If eye irritation persists: Get medical attention / advice.

If skin irritation occurs: Get medical attention / advice.

Specific treatment (see as instructed on this label).

If eye irritation persists: Get medical advice/attention.

IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.

IF IN EYES: Rinse cautiously with water for several minutes.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing.

Take off contaminated clothing. And wash it before reuse.

Section 3. Composition/information on ingredients

Mixtures

Identifiers	Ingredients	Percentage	Classification
64-17-5	Ethanol	12%	
18472-51-0	Chlorhexidine digluconate	0.12%	

Section 4. First-Aid Measures

Description of First Aid Measures**In the event of splashes or contact with eyes**

Immediately flush with clean, low-pressure water for several minutes. Hold eyelids open to ensure adequate flushing. Seek medical attention if irritation, redness, or any other symptom develops.

In the event of splashes or contact with skin

If redness or other symptoms occur, seek medical advice / attention. Wash contaminated areas thoroughly with water.

In the event of ingestion

Rinse the mouth with water. DO NOT INDUCE VOMITING. Call a poison center, a doctor, or medical service. In case of ingestion of large quantities immediately take the exposed person to hospital.

In the event of inhalation

Remove person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

No available data for this section.

Indication of any immediate medical attention and special treatment needed

No available data for this section.

Section 5. Firefighting Measures

Extinguishing media**Suitable Extinguishing Media**

The suggested appropriate media: Dry chemical. Water spray. Carbon dioxide. Alcohol-resistant foam.

Unsuitable Extinguishing Media

No available data for this section.

Special hazards arising from the substance or mixture

Specific Hazards Arising from Combustion of Products

No available data for this section.

Combustion Products

Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of nitrogen (NO_x). Chlorine compounds.

Advice for firefighters

Protective Measures for Fire-Fighting

Wear self-contained breathing apparatus. Wear full protective clothing.

Special Protective Actions for Fire-Fighters

No available data for this section.

Other Information for Fire Fighters

No available data for this section.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes.

Environmental precautions

This product is harmful to the environment. Avoid release to the environment.

Methods and material for containment and cleaning up

Absorb with earth, sand, or other non-combustible material. Dispose of the material in accordance with government regulations.

Reference to other sections

No available data for this section.

Section 7. Handling and Storage

Precautions for safe handling

Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes. No smoking or open flame in storage, use, or handling areas.

Conditions for safe storage, including any incompatibilities

Conditions for Safe Storage

Storage Temperature: <25°C.

Keep away from: Direct sunlight.

Keep container tightly closed. Store in a cool, well ventilated area.

Suitable Packaging

Original packaging.

Incompatible Materials

Strong bases. Strong acids. Oxidizing materials.

Specific end use(s)

No available data for this section.

Section 8. Exposure Controls / Personal Protection

Control parameters

Control Parameters / Limits for Product

No available data for this section.

Control Parameters / Limits for Component

Ethanol

OSHA PEL (TWA)	1000 ppm. 1900 mg/m ³ .
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ACGIH STEL (TLV)	1000 ppm. 1880 mg/m ³ .
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Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants (TWA-EV)	1000 ppm. 1880 mg/m ³ .
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Chlorhexidine digluconate

OSHA STEL (PEL)	Not established.
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ACGIH STEL (TLV)	Not established.
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Exposure controls

Engineering Measures

Eye wash stations are recommended in areas where product is stored in large quantities. Provide adequate general and local exhaust ventilation.

Respiratory Protection

Certified self-contained breathing apparatus must be available in case of emergency.

Eye/Face Protection

Wear chemical goggles or face shield. In industrial plants or large production areas, ensure eye-wash stations are available. For use in small settings or offices, a procedure and training for washing eyes in a sink is recommended.

Skin and Body Protection

Wear protective gloves. Wear flame retardant antistatic protective clothing.

Hand Protection

Wear impermeable gloves. Ensure gloves are certified.

Hygiene Measures

No available data for this section.

Environmental exposure controls

No available data for this section.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State

Liquid

Appearance

Clear

Odor	Mild Alcohol
Odor threshold	Not available
pH	7.4
Melting point	-10°C / 14°F
Boiling point	111°C / 231.8°F
Flash Point	Not available
Evaporation rate	0.7 multiplier w/r/t butyl acetate
Flammability	Non-flammable
Flammability limit	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.05 multiplier w/r/t water @20C
Solubility	Completely miscible
Solubility in other solvents	Not available
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Freezing point	Not available
Percent volatiles	100 %vol
Evaporation rate w/r/t ether	Not available
Evaporation rate w/r/t butyl acetate	0.7
Relative density w/r/t water	1.05
Relative density w/r/t air	Not available

Other Information

No available data for this section.

Section 10. Chemical Stability & Reactivity Information

Reactivity

No available data for this section.

Chemical Stability

This product is stable under ambient condition.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid

Keep away from: Heat. Hot surfaces.

Incompatible Materials

Oxidizers. Strong bases. Strong acids.

Hazardous Decomposition Products

Decomposition will Result in Production of: Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of nitrogen (NO_x). Chlorine compound gases.

Section 11. Toxicological Information

Information on toxicological effects

Toxicological Information for Product

No available data for this section.

Toxicological Information for Component

Ethanol

Draize Test - Eye	500 mg, Rabbit, Severe. 500 mg(24h), Mild.
Draize Test - Skin	20 mg(24h), Rabbit, Moderate.
LC 50 Inhalation	39 g/m ³ (4h), Mouse. 20000 ppm(10h), rat.
LD 50 Oral	3450 mg/kg, Mouse. 6300 mg/kg, Rabbit. 7060 - 9000 mg/kg, Rat.

Chlorhexidine digluconate

NOAEL	Not teratogenic.
Genetic Toxicity	In Vivo Cytogenetics: Hamster, Negative. In Vivo Cytogenetics: Oral LD 50, 3450 mg/kg, Mouse. In Vivo Dominant Lethal Assay: Mouse, Negative.
Embryo/Fetal Development	68 mg/kg/day, Rat, Oral.
LD 50 Oral	2000 mg/kg. 1260 mg/kg, Mouse.

Irritation/Corrosion Information for Product

No available data for this section.

Irritation/Corrosion Information for Component

Chlorhexidine digluconate

Eyes: Moderate, Rabbit.

Section 12. Ecological Information

Toxicity

Ecotoxicity Values for Product

No available data for this section.

Ecotoxicity Values for Component

Ethanol

LC 50 Fish: >10000 mg/l. 12900-15300 mg/L(96hr), Rainbow trout. 11200 mg/L(24hr), Rainbow trout.
EC 50 Crustaceans: 7800 mg/l, Daphnia.
EC 50 Fingerling: 34900 mg/L(5-30min), Phytobacterium phosphoreum.
Toxic Threshold concentration: >6500 mg/l, Pseudomonas putida. >5000 mg/l, Scenedesmus quadricauda.
 >1450 mg/l, Mycrosystis aeruginosa.
LD 50 Crustaceans: 7800 mg/l, Daphnia.

LD 50 Fish: 9000 mg/l(24h).

Chlorhexidine digluconate

LC 50 Fish: 13.4 mg/l(48hr), Fresh Water.

EC 50 Algae: 0.081 mg/l(72hr).

EC 50 Invertebrates: 0.087 mg/l(48hr), Daphnia magna.

Persistence and degradability

Ethanol: Biodegradable.

Bioaccumulative potential

Bioaccumulative Potential for Product

No available data for this section.

Bioaccumulative Potential for Component

Ethanol

Low bioaccumulation potential.

Mobility in soil

No available data for this section.

Results of PBT and vPvB assessment

No available data for this section.

Other adverse effects

No available data for this section.

Section 13. Disposal Considerations

Waste treatment methods

Waste Disposal Regulation(s) / Operation

Dispose of according to local, state, and federal regulations.

Waste Treatment Methods

No available data for this section.

Section 14. Transportation Information

	ADR	IMDG	IATA	DOT
UN number	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
UN proper shipping name	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
Transport hazard class(es)	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
Packing group	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
Environmental hazards	No available data for this section.	No available data for this section.	No available data for this section.	No available data for this section.
Special precautions for user	No available data for this section.			

	ADR	IMDG	IATA	DOT
Transport in bulk according to Annex II of Marpol and the IBC Code	No available data for this section.			
Other	This product is not regulated for transport			

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, Health and Environmental Regulations for Product

No available data for this section.

Safety, Health and Environmental Regulations for Component

Ethanol

DSL:	Listed on Canada's DSL List.
TSCA:	Listed on the United States TSCA Inventory.
WHMIS classification:	B2 - Flammable and combustible material - Flammable Liquid. D2B Toxic Material Causing other Toxic Effects.

Chlorhexidine digluconate

DSL:	Listed on Canada's DSL List.
TSCA:	Listed on the United States TSCA Inventory.
WHMIS classification:	none.

Section 16. Other Information

Disclaimer

The above information is accurate to the best of our knowledge, however since data, safety standards and government regulations change, and the conditions of handling and use or misuse are beyond our control, manufacturer and distributor, above mentioned, make no warranty either expressed or implied with respect to the completeness or continuing accuracy of information herein and disclaims all liability for reliance thereon. Do not use ingredient information and / or ingredient percentages in this SDS as a product specification.

Glossary

ACGIH: American Conference of Governmental Industrial Hygienists.

DOT: Department of Transportation, USA.

LC 50: Lethal Concentration which is lethal to 50% of the population.

LD 50: Lethal Dose which is lethal to 50% of the population.

N/A: Not applicable.

N/AV: Not available.

N/D: Not determined.

OSHA: US Occupational Safety and Health Administration, US Department of Labor.

PEL: Permissible Exposure Limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

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