

## SAFETY DATA SHEET

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

#### Product identifier

**Product Name:** BM-4200 Ethyl Alcohol Denatured

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

**Recommended Use(s):** Surface cleaner and lab burner fuel

#### 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

**Website:** www.nakpfoto.com

**Email:** paul@nakpfoto.com

**Tel** (514) 932-8057

**Fax** (514) 932-8057

**Distributor:** B.M. Group Inc.  
5890 Monkland Avenue, Suite 16  
Montreal Quebec H4A 1G2  
Canada

**Website :** http://www.bmcanada.ca

**Email:** info@bmcanada.ca

**Tel:** (514) 738-5200 Toll Free 1-800-561-9818

**Fax:** (514) 738-2290

#### Emergency telephone number

**Emergency contact:** 1-800-463-5060 Poison Control Center in Quebec, Canada  
Canutec: 613-996-6666

#### Notes:

While this product is sold in 4L format to consumers who generally purchase small quantities, 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:

Specific target organ toxicity - single exposure - Category 3 (Narcotic)  
Specific target organ toxicity - single exposure - Category 3 (Respiratory)  
Specific target organ toxicity - single exposure - Category 2  
Serious eye irritation - Category 2  
Skin irritation - Category 2  
Acute Toxicity Oral - Category 4  
Flammable Liquids - Category 2

#### Label elements

##### Pictograms:



**Signal Words:**

Danger

**Hazard Statements:**

Highly flammable liquid and vapour.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs.

**Precautionary Statements:****Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Keep cool.

Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating, lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Do not breathe vapors, spray.

Avoid breathing vapors, spray.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

**Response**

If exposed or concerned: Call a POISON CENTER, doctor.

Call a POISON CENTER, doctor if you feel unwell.

IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell.

If eye irritation persists: Get medical attention / advice.

If skin irritation occurs: Get medical attention / advice.

Rinse mouth.

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

IF ON SKIN: Wash with plenty of water.

IF ON SKIN (or hair): Rinse skin with water or shower

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Take off contaminated clothing. And wash it before reuse.

In case of fire: Use Use dry chemical, water spray, carbon dioxide or alcohol-resistant foam to extinguish to extinguish.

**Storage**

Store in a well-ventilated place.

Store locked up.

**Disposal**

Dispose of contents in accordance with all local, regional, national and international regulations. Dispose of container in accordance with all local, regional, national and international regulations.

**Section 3. Composition/information on ingredients****Substances**

No available data for this section.

**Mixtures**

Identifiers	Ingredients	Percentage	Classification
64-17-5	Ethanol	88.8%	
67-56-1	Methanol	9.6%	

Identifiers	Ingredients	Percentage	Classification
7732-18-5	Water	1%	
141-78-6	Ethyl acetate	0.59%	

## Section 4. First-Aid Measures

### Description of First Aid Measures

#### In the event of splashes or contact with eyes

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

#### 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

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

#### In the event of inhalation

If after inhalation you feel unwell, seek medical advice. Remove person to fresh air and keep at rest in a position comfortable for breathing.

### 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

For small fires: Dry chemical.

#### 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

No available data for this section.

### Advice for firefighters

#### Protective Measures for Fire-Fighting

No available data for this section.

#### 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

No available data for this section.

### Environmental precautions

No available data for this section.

### Methods and material for containment and cleaning up

No available data for this section.

### Reference to other sections

No available data for this section.

## Section 7. Handling and Storage

### Precautions for safe handling

No available data for this section.

### Conditions for safe storage, including any incompatibilities

#### Conditions for Safe Storage

No available data for this section.

#### Suitable Packaging

No available data for this section.

#### Incompatible Materials

No available data for this section.

### 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/m3.
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ACGIH STEL (TLV)	1000 ppm. 1880 mg/m3.
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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/m3.
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##### Ethyl acetate

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DNEL Consumers, Inhalation, Long-term local effects	367 mg/m <sup>3</sup> .
DNEL Consumer, Oral, Long term, systemic effects	4.5 mg/kg.
DNEL Workers, Inhalation, Short-term, local effects	1468 mg/m <sup>3</sup> .
DNEL Workers, Inhalation, Short term, systemic effects	DNEL 1468 mg/m <sup>3</sup> .
WEL-STEL	400 ppm.
DNEL Consumers, Inhalation, Acute systemic effects	734 mg/m <sup>3</sup> .
DNEL Consumers, Inhalation, Acute local effects	734 mg/m <sup>3</sup> .
DNEL Consumers, Inhalation, Long-term systemic effects	367 mg/m <sup>3</sup> .
DNEL Workers, Inhalation, Long-term systemic effects	734 mg/m <sup>3</sup> .
DNEL Workers, Inhalation, Long-term local effects	734 mg/m <sup>3</sup> .
DNEL Consumers, Skin contact, Long-term systemic effects	37 mg/kg.
DNEL Workers, Skin contact, Long-term systemic effects	63 mg/kg.
	Methanol
<b>STEL</b>	328 mg/m <sup>3</sup> OEL, Canada, Alberta 250 ppm OEL, Canada, Alberta
<b>TWA</b>	262 mg/m <sup>3</sup> Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants (TWAEV) 200 ppm Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants (TWAEV) 262 mg/m <sup>3</sup> OEL, Canada, Alberta 200 ppm OEL, Canada, Alberta

**Exposure controls**

**Engineering Measures**

No available data for this section.

**Respiratory Protection**

No available data for this section.

**Eye/Face Protection**

No available data for this section.

**Skin and Body Protection**

No available data for this section.

**Hand Protection**

No available data for this section.

**Hygiene Measures**

No available data for this section.

**Environmental exposure controls**

No available data for this section.

<b>Section 9. Physical and chemical properties</b>
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**Information on basic physical and chemical properties**

<b>Physical State</b>	Not available
<b>Appearance</b>	Clear
<b>Odor</b>	Characteristic odor
<b>Odor threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting point</b>	Not available
<b>Boiling point</b>	77.8°C / 172.04°F
<b>Flash Point</b>	33.3°C / 91.94°F
<b>Evaporation rate</b>	2.7 multiplier w/r/t butyl acetate
<b>Flammability</b>	Liquid Highly Flammable
<b>Flammability limit</b>	3.3 to 19 %vol
<b>Vapor pressure</b>	50 mmHg
<b>Vapor density</b>	1.59 g/cm <sup>3</sup>
<b>Relative density</b>	0.825 multiplier w/r/t water
<b>Solubility</b>	Very soluble
<b>Solubility in other solvents</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Freezing point</b>	Not available
<b>Percent volatiles</b>	100 %vol
<b>Explosion limit (upper)</b>	3.3 %vol
<b>Explosion limit (lower)</b>	19 %vol

**Other Information**

No available data for this section.

<b>Section 10. Chemical Stability &amp; Reactivity Information</b>
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## Reactivity

No available data for this section.

## Chemical Stability

No available data for this section.

## Possibility of Hazardous Reactions

No available data for this section.

## Conditions to Avoid

No available data for this section.

## Incompatible Materials

No available data for this section.

## Hazardous Decomposition Products

No available data for this section.

## Section 11. Toxicological Information

### Information on toxicological effects

#### Toxicological Information for Product

No available data for this section.

#### Toxicological Information for Component

##### Ethanol

<b>LC50 Inhalation - Not Specified</b>	39 g/m <sup>3</sup> (4h), Mouse. 20000 ppmV (10h), Rat.
<b>LD50 Oral</b>	3450 mg/kg Mouse. 6300 mg/kg Rabbit. 7060 to 9000 mg/kg Rat.

##### Methanol

<b>LC50 Inhalation - Not Specified</b>	83.2 mg/l (4h), Rat. 64000 ppmV (4h), Rat.
<b>LD50 Dermal</b>	15800 mg/kg Rabbit.
<b>LD50 Oral</b>	5628 mg/kg Rat.

##### Ethyl acetate

<b>LC50 Inhalation - Not Specified</b>	Greater than 28.6 mg/l (4h).
<b>LD50 Dermal</b>	Lesser than 18000 mg/kg Rabbit.
<b>LD50 Oral</b>	5620 mg/kg Rat.

#### Irritation/Corrosion Information for Product

No available data for this section.

#### Irritation/Corrosion Information for Component

##### Ethyl acetate

**Eye contact:** Causes eye irritation.  
**Skin contact:** 24h, Rabbit, May cause skin dryness or cracking.

##### Ethanol

**Draize Test - Eye:** 500 mg, Rabbit, Severe. 500 mg(24h), Rabbit, Mild.

Draize Test - Skin: 20 mg(24h), Rabbit, Moderate.

## Section 12. Ecological Information

### Toxicity

#### Ecotoxicity Values for Product

No available data for this section.

#### Ecotoxicity Values for Component

##### Ethanol

<b>EC50</b>	34900 mg/l (5-30min), Phytobacterium phosphoreum.
<b>LC50 Environmental</b>	Greater than 10000 mg/l. 12900 to 15300 mg/l (96h), Rainbow Trout. 11200 mg/l (24h), Rainbow Trout. 9000 mg/l (24h). Greater than 7800 mg/l Daphnia.

##### Methanol

<b>EC50</b>	43000 mg/l (5min), Phytobacterium phosphoreum. 40000 mg/l (15min), Phytobacterium phosphoreum. 39000 mg/l (25min), Phytobacterium phosphoreum.
<b>LC50 Environmental</b>	29400 mg/l (96h), Fish, Fathead Minnow (28 days old). 13 mg/l (96h), Fish, Rainbow Trout (Fingerling). 8000 mg/l (43h), Fish, Trout.

##### Ethyl acetate

<b>EC50</b>	610 mg/l (48h) Crustacians: Daphnia magna. 5600 mg/l (48h) Algae: Pseudokirch neriella subcapitata. 3300 mg/l (48h) Algae: Scenedesmus subspicatus.
<b>LC50 Environmental</b>	230 mg/l (96h) Fish: Pimephales promelas.

### Persistence and degradability

No available data for this section.

### Bioaccumulative potential

#### Bioaccumulative Potential for Product

No available data for this section.

#### Bioaccumulative Potential for Component

##### Ethyl acetate

**BCF:** 30 Fish.  
**LogPow:** 0.68 (3d), Unlikely.

### 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

No available data for this section.

#### 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.	UN 1986
UN proper shipping name	No available data for this section.	No available data for this section.	No available data for this section.	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methanol)
Transport hazard class(es)	No available data for this section.	No available data for this section.	No available data for this section.	3 (6.1)
Packing group	No available data for this section.	No available data for this section.	No available data for this section.	II
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.			
Transport in bulk according to Annex II of Marpol and the IBC Code	No available data for this section.			
Other	Flammable liquid.			

## 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

##### Methanol

DSL (Canada):	Present.
TSCA:	Present.
WHMIS (Canada):	B2 - Flammable and combustible material - Flammable Liquid. D1B - Very Toxic Material. D-2A: Toxic material. D2B Toxic Material Causing other Toxic Effects.

##### Ethanol

DSL (Canada):	Present.
TSCA:	Present.

## Chemical safety assessment

No available data for this section.

### 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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