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.
4950 CH Queen Mary, Suite 100 Mezzanine
Montreal Quebec H3W 1X3 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

1-800-463-5060 Poison Control Center in Quebec; 1-844-764-7669 Poison Control Center in 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.
ACGIH STEL (TLV)	1000 ppm. 1880 mg/m3.
Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants (TWAEV)	1000 ppm. 1880 mg/m3.

Ethyl acetate

DNEL Consumers, Inhalation, Long-term local effects	367 mg/m³.
DNEL Consumer, Oral, Long term, systemic effects	4.5 mg/kg.
DNEL Workers, Inhalation, Short-term, local effects	1468 mg/m³.
DNEL Workers, Inhalation, Short term, systemic effects	DNEL 1468 mg/m³.
WEL-STEL	400 ppm.
DNEL Consumers, Inhalation, Acute systemic effects	734 mg/m³.
DNEL Consumers, Inhalation, Acute local effects	734 mg/m³.
DNEL Consumers, Inhalation, Long-term systemic effects	367 mg/m³.
DNEL Workers, Inhalation, Long-term systemic effects	734 mg/m³.
DNEL Workers, Inhalation, Long-term local effects	734 mg/m³.
DNEL Consumers, Skin contact, Long-term systemic effects	37 mg/kg.
DNEL Workers, Skin contact, Long-term systemic effects	63 mg/kg.

Methanol

STEL	328 mg/m³ OEL, Canada, Alberta
	250 ppm OEL, Canada, Alberta
TWA	262 mg/m³ 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/m³ 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.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State	Not available
Appearance	Clear
Odor	Characteristic odor
Odor threshold	Not available
pH	Not available
Melting point	Not available
Boiling point	77.8°C / 172.04°F
Flash Point	33.3°C / 91.94°F
Evaporation rate	2.7 multiplier w/r/t butyl acetate
Flammability	Liquid Highly Flammable
Flammability limit	3.3 to 19 %vol
Vapor pressure	50 mmHg
Vapor density	1.59 g/cm³
Relative density	0.825 multiplier w/r/t water
Solubility	Very soluble
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
Explosion limit (upper)	3.3 %vol
Explosion limit (lower)	19 %vol

Other Information

No available data for this section.

Section 10. Chemical Stability & Reactivity Information

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

LC50 Inhalation - Not Specified	39 g/m³ (4h), Mouse. 20000 ppmV (10h), Rat.
LD50 Oral	3450 mg/kg Mouse. 6300 mg/kg Rabbit. 7060 to 9000 mg/kg Rat.

Methanol

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

Ethyl acetate

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

EC50	34900 mg/l (5-30min), Phytobacterium phosporeum.
LC50 Environmental	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

EC50	43000 mg/l (5min), Phytobacterium phosphoreum. 40000 mg/l (15min), Phytobacterium phosphoreum. 39000 mg/l (25min), Phytobacterium phosphoreum.
LC50 Environmental	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

EC50	610 mg/l (48h) Crustacians: Daphnia magna. 5600 mg/l (48h) Algae: Pseudokirch neriella subcapitata. 3300 mg/l (48h) Algae: Scenedesmus subspicatus.
LC50 Environmental	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	UN 1986	UN 1986	UN 1986	UN 1986
UN proper shipping name	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methanol)	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methanol)	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methanol)	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methanol)
Transport hazard class(es)	3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)
Packing group	II	II	II	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	Read safety instructions, SDS and emergency procedures before handling			
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 conbustible 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.

Prepared by: N.A.K.P. Foto Inc.