

## SAFETY DATA SHEET

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

#### Product identifier

**Product Name:** BM-3000 Dental X-Ray Fixer

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

**Recommended Use(s):** X-ray image processing

#### Details of the supplier of the safety data sheet

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

#### Emergency telephone number

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

### Section 2. Hazards identification

#### Classification of the substance or mixture

**GHS Classification for mixture:**  
This product has no hazards

#### Label elements

**Pictograms:**  
No available data for this section.

**Signal Words:**  
No available data for this section.

**Hazard Statements:**  
No available data for this section.

**Precautionary Statements:**  
No available data for this section.

#### Other hazards

No available data for this section.

### Section 3. Composition/information on ingredients

#### Substances

No available data for this section.

## Mixtures

Identifiers	Ingredients	Percentage	Classification
7783-18-8	Ammonium Thiosulfate	15%	
64-19-7	Acetic Acid	3%	
7757-83-7	Sodium Sulfite	2%	

## Section 4. First-Aid Measures

### Description of First Aid Measures

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

Wash eyes with plenty of water. Hold eyelids open to ensure adequate flushing. Remove the contact lenses if worn and easy to do that. Seek medical attention if irritation, redness, or any other symptom develops.

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

Wash contaminated areas thoroughly with water.

#### In the event of ingestion

Seek medical advice.

#### In the event of inhalation

If after inhalation you feel unwell, seek medical advice.

### 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:** Alcohol-type or universal-type foams. Carbon dioxide. Dry chemical.

The product is not flammable or combustible.

#### Unsuitable Extinguishing Media

No available data for this section.

### Special hazards arising from the substance or mixture

#### Specific Hazards Arising from Combustion of Products

**Fire / decomposition hazards:** Toxic gases.

#### Combustion Products

Sulfur oxides. Sodium oxides. Ammonium thiosulfate gas.

### Advice for firefighters

#### Protective Measures for Fire-Fighting

Wear self-contained breathing apparatus.

#### 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

Ventilate area of leak or spill. Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes.

### Environmental precautions

Dispose of the material in accordance with government regulations.

### Methods and material for containment and cleaning up

Pick up and place in a suitable container for reclamation or disposal.

### Reference to other sections

No available data for this section.

## Section 7. Handling and Storage

### Precautions for safe handling

Protect against physical damage.

### Conditions for safe storage, including any incompatibilities

#### Conditions for Safe Storage

**Storage Temperature:** >5°C.

**Keep away from:** Direct sunlight. Oxidizing materials.

Keep container tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances (See section 10). Store in the dark. Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

#### Suitable Packaging

Store in original container / packaging.

#### 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

Ammonium Thiosulfate

OSHA PEL

15 mg/m<sup>3</sup>, Mist.

5 mg/m<sup>3</sup>, respirable particulate.

ACGIH (TLV)

Not established.

Sodium Sulfite

OSHA PEL	Not established.
ACGIH (TLV)	Not established.
Acetic Acid	
OSHA PEL (TWA)	10 ppm. 25 mg/m <sup>3</sup> .
ACGIH TLV (TWA)	10 ppm. 25 mg/m <sup>3</sup> .
ACGIH STEL (TWA)	15 ppm. 37 mg/m <sup>3</sup> .

## Exposure controls

### Engineering Measures

Provide adequate general and local exhaust ventilation.

### Respiratory Protection

Not obliged if below the occupational health thresholds.

### Eye/Face Protection

Not obliged.

### Skin and Body Protection

No special skin or body protection specified for the product.

### Hand Protection

Not obliged.

### 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	Characteristic vinegar like odor
Odor threshold	Not available
pH	4.25 to 4.4
Melting point	Not available
Boiling point	Greater than 100°C / 212°F
Flash Point	Not applicable
Evaporation rate	Not available
Flammability	Liquid Non flammable
Flammability limit	Not available
Vapor pressure	15 to 17 mmHg
Vapor density	0.5 to 0.7 g/cm <sup>3</sup>

Relative density	1.08 to 1.1 multiplier w/r/t water @20C
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	90 %vol
Evaporation rate w/r/t ether	Not available
Evaporation rate w/r/t butyl acetate	Not available
Relative density w/r/t water	1.08 to 1.1 Conditions of Measurement: Temperature: 20°C / 68°F Pressure: 101.3kPa
Relative density w/r/t air	Not available

## Other Information

No available data for this section.

## Section 10. Chemical Stability & Reactivity Information

### Reactivity

**Chemical stability:** This product is stable under ambient condition.

### Chemical Stability

No available data for this section.

### Possibility of Hazardous Reactions

Hazardous reactions may occur in contact with incompatible materials.

### Conditions to Avoid

**Keep away from:** Direct sunlight. Fire. Heat.

### Incompatible Materials

**Avoid contact or storage with:** Strong bases.

Oxidizing agents.

### Hazardous Decomposition Products

**Decomposition will Result in Production of:** Oxides of sulfur (SO<sub>x</sub>). Ammonium gases. Sodium oxides.

## Section 11. Toxicological Information

### Information on toxicological effects

#### Toxicological Information for Product

No available data for this section.

#### Toxicological Information for Component

**Ammonium Thiosulfate**

<b>LC50 Inhalation</b>	Greater than 2.26 g/m <sup>3</sup> (4h), Rat. Greater than 1.8 g/m <sup>3</sup> (4h), Mouse.
<b>LD50 Oral</b>	2890 mg/kg Rat. 21000 mg/kg Mouse. 1098 mg/kg Guinea Pig.

**Acetic Acid**

<b>LC50 Inhalation</b>	5620 mg/m <sup>3</sup> (1h) Mouse.
<b>LD50 Dermal</b>	1060 mg/kg Rabbit.
<b>LD50 Oral</b>	3310 mg/kg Rat.

**Sodium Sulfite**

<b>LC50 Inhalation</b>	5.5 mg/l (4h) Rat.
<b>LD50 Oral</b>	2610 mg/kg Rat.

**Irritation/Corrosion Information for Product**

No available data for this section.

**Irritation/Corrosion Information for Component**

No available data for this section.

<b>Section 12. Ecological Information</b>
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**Toxicity****Ecotoxicity Values for Product**

No available data for this section.

**Ecotoxicity Values for Component****Acetic Acid**

<b>LC50 Environmental</b>	103.889 mg/l Fish, Fathead minnow. 251 mg/l Fish, Western mosquitofish.
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**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**

No available data for this section.

**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

Discharge to sewer may require approval of permitting authority and may require pretreatment. Avoid release to soil. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

#### 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.			
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

##### Ammonium Thiosulfate

DSL (Canada):	Present. Record# 8479.
TSCA:	Present.
OSHA:	This product meets the definition of a hazardous material under criteria of the Federal OSHA Hazard Communication Standard (29CFR 1910.1200).

##### Sodium Sulfit

DSL (Canada):	Present.
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TSCA:

Present.

Acetic Acid

EINECS:

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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