

SAFETY DATA SHEET

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

Product identifier

Product Name: B7, Fixer (For roller systems)

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

Manufacturer: N.A.K.P Foto Inc.
2575 De Miniac
Ville Saint Laurent, Quebec H4S 1E5
Canada

Distributor: Sinclair Dental Co. Ltd.
900 Harbourside Drive,
North Vancouver, BC V7P 3T8
Canada

Website: www.nakpfoto.com

Website : www.SinclairDental.com

Email: paul@nakpfoto.com

Email: info@SinclairDental.com

Tel (514) 932-8057

Tel: (604) 986-1544 **Toll Free** 1-800-663-7393

Fax (514) 932-8057

Fax: 1-800-206-2999

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/m³, Mist.

5 mg/m³, 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 ³ .
ACGIH TLV (TWA)	10 ppm. 25 mg/m ³ .
ACGIH STEL (TWA)	15 ppm. 37 mg/m ³ .

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 ³

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_x). 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

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

Acetic Acid

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

Sodium Sulfite

LC50 Inhalation	5.5 mg/l (4h) Rat.
LD50 Oral	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.

Section 12. Ecological Information

Toxicity**Ecotoxicity Values for Product**

No available data for this section.

Ecotoxicity Values for Component**Acetic Acid**

LC50 Environmental	103.889 mg/l Fish, Fathead minnow. 251 mg/l Fish, Western mosquitofish.
---------------------------	--

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	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.
Transport hazard class(es)	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.	Not regulated for transport.
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.
---------------	----------

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.

ADR: American depository receipt.

DOT: Department of Transportation, USA.

DSL: Department Safety Liaison.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

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. An exposure limit that is published and enforced by OSHA as a legal standard.

PBT: Persistent, Bioaccumulative and Toxic.

STEL: Short Term Exposure Limit.

TLV: Threshold Limit Value.

TSCA: Toxic Substances Control Act.

TWA: Time Weighted Average.

vPvB: Very Persistent and Very Bioaccumulative.

Prepared by: CompleteSDS

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