



Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

SAFETY DATA SHEET

KODAK PROFESSIONAL Rapid Fix Part B - 5160353

SECTION 1: IDENTIFICATION

1.1. Product identifier

- ▼ **Trade name:** KODAK PROFESSIONAL Rapid Fix Part B - 5160353
Obtain special instructions before use.
- ▼ **Product no.:** 5160353

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

- Relevant identified uses of the substance or mixture:** Photographic chemical for processing black and white film and paper.
- Uses advised against :** None known.

1.3. Details of the supplier of the safety data sheet

- Company and address:** **Photo Systems Inc.**
7190 Huron River Drive
MI 48130 Dexter
USA
Tel: +1 (734) 424-9625
Fax: +1-734-580-2199
www.photosys.com

For further information about this product email EHS-Questions @photosys.com

- Manufacturer:** **Photo Systems Inc.**
7190 Huron River Drive
MI 48130 Dexter
USA
Tel: +1 (734) 424-9625
Fax: +1-734-580-2199
www.photosys.com

- Contact person:** Jake Bolt
- E-mail:** jake@photosys.com
- SDS date:** 2/26/2024
- SDS Version:** 2.0
- Date of previous version:** 12/20/2023 (1.0)

1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (trriage.webpoisoncontrol.org) to get specific guidance for your case
See also section 4 "First aid measures".



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SECTION 2: HAZARD(S) IDENTIFICATION

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

STOT SE 3; H335, May cause respiratory irritation.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

May cause respiratory irritation. (H335)

Precautionary statement(s):

General:

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Prevention:

Keep only in original packaging. (P234)

Do not breathe vapour/mist. (P260)

Use only outdoors or in a well-ventilated area. (P271)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Absorb spillage to prevent material damage. (P390)

Storage:

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Store locked up. (P405)

Disposal:

Dispose of contents/container in accordance with local regulation (P501)

Additional labelling:

Not applicable.

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances



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known to fulfil the criteria for PBT and vPvB classification.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Aluminum Sulfate Solution 60 %	CAS No.: 10043-01-3	25-40%	Met. Corr. 1, H290 Eye Dam. 1, H318	
Sulfuric Acid 50% Solution	CAS No.: 7664-93-9	15-25%	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

General information:

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her. Get medical attention if symptoms occur.

Skin contact:

Immediately flush skin with plenty of water. Remove contaminated clothing. Get medical attention in if symptoms occur or in case of eczema or other skin disorders.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance



- Ingestion:** immediately and continue flushing during transport.
Never give anything by mouth to an unconscious person. No NOT induce vomiting. Rinse mouth. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical attention immediately.
- Burns:** Not applicable.

4.2. ▼ Most important symptoms and effects, both acute and delayed

Symptoms of inadvertent contact with products containing sulfuric acid are: extreme destruction of tissues of the mucous membranes and upper respiratory tract, eyes, and skin. Spasm, inflammation and edema of the larynx, Spasm, inflammation and edema of the bronchi. Pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, Shortness of breath. Headache, Nausea, Vomiting. Effects may be delayed.

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Most important known symptoms and effects are described in the labeling (see Section 2.2 and in Section 11.)

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

No unusual fire or explosion hazards noted

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed. Hazardous decomposition products are carbon and sulfur oxides.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Use personnel protective equipment and clothing recommended in Section 8.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.



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Avoid inhalation of vapours from spilled material.
Contaminated areas may be slippery.

6.2. Environmental precautions

Prevent product from entering drains, water courses or onto the ground.
Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Obtain special instructions before use. do not handle until all safety precautions have been read and understood. Do not get this material in contact with eyes. Do not taste or swallow. Avoid contact with skin and clothing. Avoid prolonged exposure. When using, Do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material: Keep only in original packaging.

Storage temperature: Dry, cool and well ventilated

Incompatible materials: Bases
Metal

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational Exposure Limits

Sulfuric Acid 50% Solution

Long term exposure limit (OSHA Table Z-1) (mg/m³): 1



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Long term exposure limit (ACGIH TLV) (mg/m³): 0.2 / (Thor.)
 Long term exposure limit (NIOSH REL) (mg/m³): 1

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

Good ventilations (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios: There are no exposure scenarios implemented for this product.

Exposure limits: Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures: The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Ensure that eyewash stations and safety showers are located within easy reach. Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures: In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.


Individual protection measures, such as personal protective equipment

Generally: Wash contaminated clothing before reuse. Use only protective equipment with a recognized certification mark, e.g. the UL mark.


Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				


Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Gloves	-	-	EN374	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Slight sulphur
Odour threshold (ppm):	Testing not relevant or not possible due to the nature of the product.
pH:	1
Density (g/cm³):	Testing not relevant or not possible due to the nature of the product. -
Relative density:	1.2
Kinematic viscosity:	No data available
Particle characteristics:	Not applicable - product is a liquid

Phase changes

Melting point (°F):	Not applicable - product is a liquid
Softening point/range (waxes and pastes) (°F):	Does not apply to liquids.
Boiling point (°F):	212
Boiling point (°C):	100
Vapour pressure:	18 mmHg
Relative vapour density:	0.6
Decomposition temperature (°F):	No data available
Evaporation rate (n-butylacetate)	No data available



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= 100):

Data on fire and explosion hazards

Flash point (°F):	Not applicable
Flammability (°F):	Not applicable
Auto-ignition temperature (°F):	No data available
Explosion limits (% v/v):	No data available

Solubility

Solubility in water:	Completely soluble
n-octanol/water coefficient (LogKow):	No data available
Solubility in fat (g/L):	Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Sensitivity to shock:	No
Evaporation rate (n-butylacetate = 100):	No data available
Other physical and chemical parameters:	No data available.
Oxidizing properties:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts violently with strong alkaline substances. This product may react with reducing agents. May be corrosive to metals.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Do not mix with other chemicals.

10.5. Incompatible materials

Bases
Metal

10.6. Hazardous decomposition products

Hazardous decomposition products are carbon oxides and sulphur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity



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May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin corrosion/irritation

Causes severe skin burns. Harmful if in contact with skin.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Not a respiratory sensitizer.

Skin sensitisation

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Risk of cancer cannot be excluded with prolonged exposure. International Agency for Research of Cancer (IARC) has determined that occupational exposure to strong inorganic mists or vapours containing sulfuric acid is carcinogenic to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Not classified.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Other information

Sulfuric Acid 50% Solution has been classified by IARC as a group 1 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

12.2. Persistence and degradability

Not readily biodegradable.

12.3. ▼ Bioaccumulative potential

Based on available data, the classification criteria are not met.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation)



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potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Treatment Methods: Product waste material must be disposed of in accordance with the national and local regulations. handle uncleaned containers like the product itself.

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es) Label: 8	14.4 PG*	14.5 Env**	Other information:
DOT	UN3264	UN3264 Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid, Aluminum Sulphate), 8, II	Transport hazard class: 8 Label: 8	II	No	Limited quantities: Exempted as product is packaged in quantities or 0.1L and 1 L. See below for additional information.
IMDG	UN3264	UN3264 Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid, Aluminum Sulphate), 8, II	Transport hazard class: 8 Label: 8	II	No	Limited quantities: Exempted as product is packaged in quantities or 0.1L and 1 L. See below for additional information.
IATA	UN3264	UN3264 Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulphuric Acid, Aluminum Sulphate), 8, II	Transport hazard class: 8 Label: 8	II	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information



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LIMITED QUANTITY EXCEPTION. This product is packaged in 0.1 L and 1L bottles.
Not dangerous goods according to DOT, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

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

15.2. U.S. Federal regulations

TSCA (the non-confidential portion):

Aluminum Sulfate Solution 60 % is listed
Sulfuric Acid 50% Solution is listed

Clean Air Act:

None of the components are listed

EPCRA Section 302:

Sulfuric Acid 50% Solution is regulated with a Treshold Planning Quantity (TPQ) of: 1000 pounds

EPCRA Section 304:

Sulfuric Acid 50% Solution is regulated with a Reportable Quantity (RQ) of: 1000 pounds

EPCRA section 313:

Sulfuric Acid 50% Solution is listed

CERCLA:

Aluminum Sulfate Solution 60 % is regulated with a Reportable Quantity (RQ) of: 5000 pounds
Sulfuric Acid 50% Solution is regulated with a Reportable Quantity (RQ) of: 1000 pounds

State regulations

California / Prop. 65:

None of the components are listed

Massachusetts / Right To Know Act:

Aluminum Sulfate Solution 60 % is listed
Sulfuric Acid 50% Solution is listed

New Jersey / Right To Know Act:

Aluminum Sulfate Solution 60 % / Substance number: 0068
Aluminum Sulfate Solution 60 % is on the Special Health Hazard Substance List

—
Sulfuric Acid 50% Solution / Substance number: 1761
Sulfuric Acid 50% Solution is on the Special Health Hazard Substance List

New York / Right To Know Act:

—
Aluminum Sulfate Solution 60 % is listed
Aluminum Sulfate Solution 60 % is regulated with a Reportable Quantity (RQ) of: 5000 pounds
Aluminum Sulfate Solution 60 % is regulated with a Treshold Reporting Quantity (TRQ) of: 500 pounds

—
Sulfuric Acid 50% Solution is listed
Sulfuric Acid 50% Solution is regulated with a Reportable Quantity (RQ) of: 1000 pounds
Sulfuric Acid 50% Solution is regulated with a Treshold



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Reporting Quantity (TRQ) of: 100 pounds
Sulfuric Acid 50% Solution is regulated with a Treshold
Planning Quantity (TPQ) of: 1000 pounds

—
Pennsylvania / Right To Know Act: Aluminum Sulfate Solution 60 % is listed
Aluminum Sulfate Solution 60 % is hazardous to the
environment (E)

—
Sulfuric Acid 50% Solution is listed
Sulfuric Acid 50% Solution is hazardous to the environment
(E)

NFPA

Health hazard: 3
Fire hazard: 0
Instability hazard: 0

15.4. Restrictions for application

No special.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

If this product is sold in retail, it must be delivered with child-resistant fastening.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.
H314, Causes severe skin burns and eye damage.
H318, Causes serious eye damage.
H335, May cause respiratory irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by
Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by
Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
DOT = Department of Transportation



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EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HCIS = Hazardous Chemical Information System
HNOC = Hazards Not Otherwise Classified
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NFPA = National Fire Protection Association
NIOSH = National Institute for Occupational Safety and Health
OECD = Organisation for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
PBT = Persistent, Bioaccumulative and Toxic
RCRA = Resource Conservation and Recovery Act
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SARA = Superfund Amendments and Reauthorization Act
SCL = A specific concentration limit.
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TSCA = The Toxic Substances Control Act
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The classification of the mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by HCS (29 CFR 1910.1200).

The safety data sheet is validated by

Validated by Photo Systems Inc./cf

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

DISCLAIMER: The information contained in this Safety Data Sheet is correct to the best of our knowledge and experience at the time of publication. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. It is the user's responsibility to assure the proper use, storage and disposal of these materials to ensure the safety and health of the user and to protect the environment.

Country-language: US-en