



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

## SAFETY DATA SHEET

# KODAK C41 RA Bleach III Replenisher Part A

### SECTION 1: IDENTIFICATION

#### 1.1. Product identifier

**Trade name:** KODAK C41 RA Bleach III Replenisher Part A  
Obtain special instructions before use.

**Product no.:** 5199039A

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

**Relevant identified uses of the substance or mixture:** Photo chemical for developing color negative film.

**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:** 8/9/2024

**SDS Version:** 2.0

**Date of previous version:** 6/17/2024 (2.0)

#### 1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.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

Skin Sens. 1A; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.

#### 2.2. Label elements

##### Hazard pictogram(s):



##### Signal word:

Warning

##### Hazard statement(s):

May cause an allergic skin reaction. (H317)

Causes serious eye irritation. (H319)

##### 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:

Avoid breathing mist/vapour. (P261)

Wash hands thoroughly after handling. (P264)

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

###### Response:

IF ON SKIN: Wash with plenty of water and soap. (P302+P352)

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

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)

If eye irritation persists: Get medical advice/attention. (P337+P313)

Take off contaminated clothing and wash it before reuse. (P362+P364)

###### Storage:

-

###### Disposal:

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

##### Additional labelling:

Not applicable.

#### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances



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Not applicable. This product is a mixture.

### 3.2. Mixtures

| Product/substance                  | Identifiers         | % w/w  | Classification                                                | Note |
|------------------------------------|---------------------|--------|---------------------------------------------------------------|------|
| acetic acid                        | CAS No.: 64-19-7    | 10-15% | Flam. Liq. 3, H226<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318 |      |
| Ammonium bromide                   | CAS No.: 12124-97-9 | 5-10%  | Eye Irrit. 2, H319                                            |      |
| Ammonium hydroxide<br>29% solution | CAS No.: 1336-21-6  | 5-10%  | Skin Corr. 1B, H314<br>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 immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

#### Ingestion:

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



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the lungs. Get medical attention immediately.

**Burns:**

Not applicable.

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

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 skin irritation or rash occurs: Get 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

**5.2. Special hazards arising from the substance or mixture**

In the event of fire, incompatible materials are Strong bases, Sodium hypochlorite (bleach), Oxidizing agents. Contact with bases may liberate ammonia. Contact with sodium hypochlorite (bleach) may liberate chloramine (toxic gas). Contact with base liberates flammable material. Hazardous decomposition products are Ammonia, Chloramine, hydrogen bromide, and nitrogen oxides (NO<sub>x</sub>).

**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.

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**

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**



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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 contact during pregnancy and while nursing.

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.

**Recommended storage material:** Keep only in original packaging.

**Storage conditions:** Dry, cool and well ventilated

**Incompatible materials:** Strong oxidizing agents  
Sodium hypochlorite (bleach)  
Bases

### 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

acetic acid

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 15

Short term exposure limit (STEL) (NIOSH REL) (ppm): 15

Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 25

Long term exposure limit (OSHA Table Z-1) (ppm): 10

Long term exposure limit (ACGIH TLV) (ppm): 10

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



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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. 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:**

No specific requirements.

**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. |       |        |           |                                                                                       |
| organic vapor/P95                                                          | P95   |        |           |  |

**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:**



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| Type                                                | Standards |                                                                                     |
|-----------------------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Wear vapor-tight chemical goggle and a face shield. |           |  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                                    |                                                                             |
|------------------------------------|-----------------------------------------------------------------------------|
| <b>Physical state:</b>             | Liquid                                                                      |
| <b>Colour:</b>                     | Colourless                                                                  |
| <b>Odour:</b>                      | sharp vinegar                                                               |
| <b>Odour threshold (ppm):</b>      | No data available                                                           |
| <b>pH:</b>                         | 5.0                                                                         |
| <b>Density (g/cm<sup>3</sup>):</b> | Testing not relevant or not possible due to the nature of the product.<br>- |
| <b>Relative density:</b>           | 1.08                                                                        |
| <b>Kinematic viscosity:</b>        | No data available                                                           |
| <b>Particle characteristics:</b>   | Not applicable                                                              |

#### Phase changes

|                                        |                            |
|----------------------------------------|----------------------------|
| <b>Melting point (°F):</b>             | No data available          |
| <b>Softening point/range (°F):</b>     | Does not apply to liquids. |
| <b>Boiling point (°F):</b>             | 212                        |
| <b>Boiling point (°C):</b>             | 100                        |
| <b>Vapour pressure:</b>                | 18 mmHg                    |
| <b>Relative vapour density:</b>        | 0.6                        |
| <b>Decomposition temperature (°F):</b> | No data available          |

#### Data on fire and explosion hazards

|                                        |                                                                        |
|----------------------------------------|------------------------------------------------------------------------|
| <b>Flash point (°F):</b>               | Not applicable                                                         |
| <b>Flammability (°F):</b>              | Not applicable                                                         |
| <b>Auto-ignition temperature (°F):</b> | No data available                                                      |
| <b>Explosion limits (% v/v):</b>       | Testing not relevant or not possible due to the nature of the product. |

#### Solubility

|                                              |                                                                        |
|----------------------------------------------|------------------------------------------------------------------------|
| <b>Solubility in water:</b>                  | Completely soluble                                                     |
| <b>n-octanol/water coefficient (LogKow):</b> | Testing not relevant or not possible due to the nature of the product. |
| <b>Solubility in fat (g/L):</b>              | Testing not relevant or not possible due to the nature of the product. |

### 9.2. Other information



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|                                                 |                    |
|-------------------------------------------------|--------------------|
| <b>Dust explosion class:</b>                    | St0 (No explosion) |
| <b>Evaporation rate (n-butylacetate = 100):</b> | No data available  |
| <b>Other physical and chemical parameters:</b>  | No data available. |
| <b>Oxidizing properties:</b>                    | Not applicable     |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

This product is stable and non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Incompatible materials.

### 10.5. Incompatible materials

Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas). Contact with base liberates flammable material. Contact with base liberates ammonia.

### 10.6. Hazardous decomposition products

Nitrogen oxides (NOx). Ammonia. Chloramine. Hydrogen bromide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Skin - This product contains substance which can cause skin irritation or allergic skin reaction. Inhalation may cause irritation to the respiratory system. Some asthmatics or sensitive individuals may experience difficulty breathing. Eye contact causes serious eye irritation.

#### Acute toxicity

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

#### Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory sensitisation

Not a respiratory sensitizer.

#### Skin sensitisation

This product is not expected to cause skin sensitization.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 1% are mutagenic or genotoxic.

#### Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.



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**Reproductive toxicity**

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

**STOT-single exposure**

None known.

**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**

None known.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**12.1. Toxicity**

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.2. Persistence and degradability**

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

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**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.



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## SECTION 14: TRANSPORT INFORMATION

|      | 14.1<br>UN / ID | 14.2<br>UN proper shipping name        | 14.3<br>Hazard class(es)                                                           | 14.4<br>PG* | 14.5<br>Env** | Other<br>information:                 |
|------|-----------------|----------------------------------------|------------------------------------------------------------------------------------|-------------|---------------|---------------------------------------|
| DOT  | -               | Not regulated as dangerous goods entry |  | -           | No            | See below for additional information. |
| IMDG | -               | Not regulated as dangerous goods entry |  | -           | No            | See below for additional information. |
| IATA | -               | Not regulated as dangerous goods entry |  | -           | No            | See below for additional information. |

\* Packing group

\*\* Environmental hazards

### Additional information

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):**

acetic acid is listed  
Ammonium bromide is listed  
Ammonium hydroxide 29% solution is listed

**Clean Air Act:**

None of the components are listed

**EPCRA Section 302:**

None of the components are listed

**EPCRA Section 304:**

None of the components are listed

**EPCRA section 313:**

Ammonium hydroxide 29% solution is listed

**CERCLA:**

acetic acid is regulated with a Reportable Quantity (RQ) of: 5000 pounds  
Ammonium hydroxide 29% 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**

acetic acid is listed



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|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Act:</b>                              | Ammonium bromide is listed<br>Ammonium hydroxide 29% solution is listed                                                                                                                                                                                                                                                                                                                                                                            |
| <b>New Jersey / Right To Know Act:</b>   | acetic acid / Substance number: 0004<br>acetic acid is on the Special Health Hazard Substance List<br>—<br>Ammonium hydroxide 29% solution / Substance number: 0103<br>Ammonium hydroxide 29% solution is on the Special Health Hazard Substance List<br>—                                                                                                                                                                                         |
| <b>New York / Right To Know Act:</b>     | acetic acid is listed<br>acetic acid is regulated with a Reportable Quantity (RQ) of: 5000 pounds<br>acetic acid is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds<br>—<br>Ammonium hydroxide 29% solution is listed<br>Ammonium hydroxide 29% solution is regulated with a Reportable Quantity (RQ) of: 1000 pounds<br>Ammonium hydroxide 29% solution is regulated with a Treshold Reporting Quantity (TRQ) of: 100 pounds<br>— |
| <b>Pennsylvania / Right To Know Act:</b> | acetic acid is listed<br>acetic acid is hazardous to the environment (E)<br>—<br>Ammonium bromide is listed<br>—<br>Ammonium hydroxide 29% solution is listed<br>Ammonium hydroxide 29% solution is hazardous to the environment (E)<br>—                                                                                                                                                                                                          |

## NFPA

Health hazard: 3  
Fire hazard: 1  
Instability hazard: 0

### 15.4. Restrictions for application

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

### 15.5. Demands for specific education

No specific requirements.

### 15.6. Additional information

Not applicable.

### 15.7. Chemical safety assessment

No

### 15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)



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## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H226, Flammable liquid and vapour.  
H314, Causes severe skin burns and eye damage.  
H318, Causes serious eye damage.  
H319, Causes serious eye irritation.  
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  
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



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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 safety data sheet is validated by**

Validated by Photo Systems Inc./cf

### **▼ Other**

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 nor 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