

Material Safety Data Sheet

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

Product name: KODAK Sodium Carbonate (monohydrate)

Product code: 1463462

Supplier: Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608; Carestream Health Canada Company, 6 Monogram Place, Suite 200, Toronto, Ontario, M9R 0A1

MSDS Prepared by: Health, Safety and Environment, Carestream Health, Inc., Rochester, New York, 14608.

For Emergency Health Information call: 1-800-424-9300.

For Other Information, call the Marketing and Distribution Center in Your Area.

Synonyms: PCD 10901, 10900, 10900

Product Use: photographic processing chemical (developer/activator)
For industrial use only.

2. Hazards identification

CONTAINS: Sodium carbonate, monohydrate (5968-11-6)

WARNING!

HARMFUL IF SWALLOWED

MIST OR DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT

CAUSES SKIN AND EYE IRRITATION

LOW PHYSICAL HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING

HMIS II Hazard Ratings:

Health - 2, Flammability - 0, Reactivity (Stability) - 0

NFPA Hazard Ratings:

Health - 1, Flammability - 0, Instability - 0

NOTE: HMIS II and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (*), in the HMIS II health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

Weight %	Components (CAS-No.)
100	Sodium carbonate, monohydrate (5968-11-6)

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4. First aid measures

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Eyes: Immediately flush eyes for at least 15 minutes. Get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: Do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

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

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: None (noncombustible)

Unusual Fire and Explosion Hazards: None.

6. Accidental release measures

Methods for cleaning up: If practicable, flush to sanitary sewer with plenty of water and prevent runoff from entering drains, storm sewers, and streams. Otherwise, collect up and put in a suitable container. Clean surface thoroughly to remove residual contamination. Flush into sewer with plenty of water. Otherwise, absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Personal precautions: Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: No special technical protective measures required.

Storage: Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls / personal protection

Occupational exposure controls: Not established

Ventilation: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in

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special circumstances.

Respiratory protection: If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn.

Eye protection: Wear safety glasses with side shields (or goggles).

Skin and body protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Recommended Decontamination Facilities: Safety shower, eye wash, washing facilities as appropriate to condition of use.

9. Physical and Chemical Properties

Physical form: solid

Colour: white

Odour: odourless

Specific gravity: 2.25

Vapour pressure: negligible

Vapour density: not applicable

Volatile fraction by weight: not applicable

Melting point/range: 851.0 °C (1563.8 °F)

Water solubility: appreciable

pH: not applicable

Flash point: not applicable, noncombustible solid

10. Stability and reactivity

Stability: Stable

Incompatibility: Strong acids.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerization does not occur.

11. Toxicological information

Effects of Exposure

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Inhalation: Airborne dust irritating.

Eyes: Irritating to eyes. Airborne dust irritating.

Skin: Causes skin irritation.

Ingestion: Harmful if swallowed. May cause irritation of the gastrointestinal tract if swallowed.

Acute Toxicity Data:

- Oral LD50: 1,600 - 3,200 mg/kg
- Skin irritation: slight

Data for Sodium carbonate, monohydrate (CAS 5968-11-6):

Acute Toxicity Data:

- Oral LD50: 1,600 - 3,200 mg/kg
- Skin irritation: slight

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Fish LC50:	> 100 mg/l
Daphnid EC50:	> 100 mg/l
Algal IC50:	Not available
Waste treatment organisms EC50:	Not available
Organics Readily Degradable:	Not applicable
Potential Bioaccumulation:	not available
COD (approximate):	0 g/g
BOD (approximate):	0 g/g

When diluted with a large amount of water, this material released directly or indirectly into the environment is not expected to have a significant impact.

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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14. Transport information

Not regulated for all modes of transportation.

For more transportation information, go to: <http://ship.carestreamhealth.com>.

15. Regulatory information

WHMIS (Canada): D2B

WHMIS Symbol(s):



U.S. California Prop. 65: none

Carcinogenicity Classification (components present at 0.1% or more):

International Agency for Research on Cancer (IARC): none

American Conference of Governmental Industrial Hygienists (ACGIH): none

U.S. National Toxicology Program (NTP): none

U.S. Occupational Safety and Health Administration (OSHA): none

Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:
none

16. Other information

US/Canadian Label Statements:

CONTAINS: Sodium carbonate, monohydrate (5968-11-6)

WARNING!

HARMFUL IF SWALLOWED

MIST OR DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT

CAUSES SKIN AND EYE IRRITATION

LOW PHYSICAL HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING

Avoid breathing dust.

Avoid contact with eyes, skin, and clothing.

Ensure adequate ventilation.

Wash thoroughly after handling.

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FIRST AID: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. If inhaled, move to fresh air. Treat symptomatically. In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

R-1, S-2, F-0, C-0