



Presto X-Ray Developer



SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: Presto Instant Chairside X-Ray System Developer
Product Form: Liquid
Other means of identification: 60028
Product Use: X-ray developer for chairside systems

Supplier Details: maxill inc.
 80 Elm St.
 St. Thomas, ON
 Canada, N5R 6C8

Emergency Contact: maxill inc. 519-631-7370, CANUTEC: 613.996.6666, ChemTel: 1-800-255-3924

2. HAZARDS IDENTIFICATION

GHS Classification for mixture: Carcinogenicity – Category 2
 Chronic aquatic toxicity – Category 3
 Skin sensitization – Category 1
 Serious eye damage – Category 1
 Skin corrosion – Category 2

GHS Label Elements:



Signal Word: Danger
Hazard Statements: Suspected of causing cancer
 Harmful to aquatic life with long lasting effects
 May cause an allergic skin reaction
 Causes serious eye damage
 Causes skin irritation

Precautionary Statements: Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Avoid release to the environment
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves/protective clothing/eye protection/face protection

Response: If exposed: Call a POISON CENTER or doctor/physician
 IF ON SKIN: Wash with plenty of water
 If skin irritation or a rash occurs: Get medical advice/attention
 Take off contaminated clothing
 Wash contaminated clothing before reuse
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention
 Store locked up

Storage:

Disposal: Dispose of contents/container in accordance with local /regional /national /international regulations

Hazards not otherwise classified: None known.



3. COMPOSITION AND INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% (w/v)
Hydroquinone	(CAS) 123-31-9	1 – 5
Sodium metabisulfite	(CAS) 7681-57-4	1 – 5
Potassium hydroxide	(CAS) 1310-58-3	1 – 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of First Aid Measures

Inhalation: Take affected persons into fresh air and keep quiet. Call a doctor immediately.

Skin Contact: Remove contaminated clothing and wash before reuse. If skin irritation continues, consult a doctor.

Eye Contact: Immediately flush with clean, low-pressure water for several minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses if present and easy to do. Immediately seek medical attention.

Ingestion: Do not induce vomiting unless instructed by a physician. If swallowed, call a physician immediately. Rinse out mouth and then drink plenty of water.

Most important symptoms/effects, acute and delayed

No information available

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician: No information available

See toxicological information (Section 11)

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Alcohol-type or universal-type foams. Carbon dioxide. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Special Hazards Arising from the Substance or Mixture

Formation of toxic gases is possible during heating or in case of fire.

Further Information: Carbon dioxide is produced by decomposition of the hydroquinone. Potassium Hydroxide and hydroquinone dust are corrosive.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

- For large spills:** Evacuate the room of anyone not wearing a self-contained breathing apparatus and who is not wearing approved protective equipment.
- For minor spills:** Ventilate spill area. Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes.
- Environmental precautions:** Do not discharge into drains or any body of water (rivers, streams, ponds, lakes, etc). If the product has entered a water course or sewer or contaminated soil or vegetation, advise the local emergency services and environmental authorities.

Methods and materials for containment and cleaning up

- Large spills:** Ventilate area of leak or spill. Absorb with earth, sand, or other non-combustible material. If possible, the spilled liquid should be transferred to a waste container. Residual liquid should be absorbed and placed in separate container. Dispose of the material in accordance with government regulations.
- Small spill:** Dilute with water and absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Precautions for Safe Handling

- General Procedures:** Avoid direct contact with the substance (solid / liquid / vapor). Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid breathing gas / mist / dust / fume / vapor / spray / particles. Check container for defect or leakage before handling. Protect against physical damage. Keep container tightly closed. Wash Hands thoroughly after handling. Report immediately if physical damage, leakage, or spillage occurs. Eye wash stations and showers are recommended in areas where product is stored in large quantities. For small volume use, ensure there is a sink nearby which employees can use to flush their eyes and skin appropriately in the event of accidental exposure.
- Storage:** Store in cool, dry conditions in well-sealed original container.
Keep away from direct sunlight
- Incompatible Materials:** Oxidizing materials. Acidic materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Controls - Product

Occupational exposure limits

No information available

Biological occupational exposure limits

No available data

Appropriate Exposure controls

Engineering Measures:

Eye wash stations should be easily accessible to areas where product is stored, handled, or used. For small volume use, ensure there is a sink nearby which



Presto X-Ray Developer



SAFETY DATA SHEET

employees can use to flush their eyes and skin appropriately in the event of accidental exposure. Provide adequate general and local exhaust ventilation.

Respiratory protection: Not normally required.

Hand protection: Handle with protective impermeable gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Wear tightly sealed goggles.

Skin and body protection: Wear appropriate chemical resistant clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Do not eat, drink, or smoke while working. Be sure to clean skin thoroughly after work and before breaks. Keep away from foodstuffs, beverages and feed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state)	Liquid.
Colour	Pale yellow
Odor	Sulfur dioxide
Initial boiling point	> 104°C
Freezing point	< 0°C
Flash point	Not applicable
Upper / Lower flammability or explosive limits	Not applicable
Vapor pressure	< 23 mmHg
Vapor density	0.6 (air = 1)
Specific gravity	1.090
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Solubility(ies)	Not available
pH	12.10

10. STABILITY AND REACTIVITY

Reactivity: No available data

Chemical Stability: No decomposition if used and stored according to specifications.

Conditions to Avoid: Direct sunlight. Fire. Heat.

Incompatible Materials: Acidic materials. Metal surfaces. Strong oxidizers

Hazardous Decomposition Products: Carbon dioxide, oxides of sulfur, oxides of potassium.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Component

Acute Toxicity:

Ingredient name	LD ₅₀ Oral	Species	LD ₅₀ Dermal	Species	LC ₅₀ Inhalation	Species
Hydroquinone	367.3 mg/kg 245-350 mg/kg 200 mg/kg	Rat Mouse Rabbit	>2000 mg/kg	Rabbit	-	-
Potassium hydroxide	333 mg/kg 2967 mg/kg	Rat Rat	-	-	-	-



Information on toxicological Effects – Product

No available data for this section

Irritation/Corrosion Information for Component

Carcinogenicity: This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification. Limited evidence of carcinogenicity in animal studies.

Hydroquinone - IARC Group 3: Not classifiable as to its carcinogenicity to humans

12. ECOLOGICAL INFORMATION

Ecotoxicity information for product: No available data

Ecotoxicity information for Components:

Ingredient name	Test	Time	Result	Species
Hydroquinone	EC50	48h	0.13 mg/L	<i>Daphnia magna</i> Fish
	LC50	96h	0.1 – 0.18 mg/L	
Potassium hydroxide	LC50	24h	50 mg/L	<i>Salvelinus fontinalis</i>

Persistence and degradability: No available data

Bio-accumulative potential: No available data

Mobility in soil: No available data

Other adverse effects: No available data

13. DISPOSAL CONSIDERATIONS

Disposal Recommendations: Must be specially treated adhering to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Avoid release to the environment.

Packaging Disposal: Disposal must be completed according to official regulations.

14. TRANSPORT INFORMATION

	DOT Classification
UN number	3082
Environmental hazards	Yes
Transport hazard class(es)	9
Packing Group	III
DOT Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,4-Benzenediol)

Special precautions for user: none



Presto X-Ray Developer

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SAFETY DATA SHEET

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations for Product

No available data for this section.

16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

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