

CARESTREAM DENTAL X-ray Monobath

Carestream Health, Inc.

Chemwatch Hazard Alert Code: 2

Issue Date: 11/07/2022 Print Date: 04/05/2023 S.REACH.GB.EN

Version No: **1.2**Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1. Product Identifier

Part Number: 5087911

Product name	CARESTREAM DENTAL X-ray Monobath		
Chemical Name	Not Applicable		
Synonyms	Not Available		
Chemical formula	Not Applicable		
Other means of identification	Not Available		

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

Relevant identified uses	Photographic chemical Restricted to professional users. Use according to manufacturer's directions.		
Uses advised against	No specific uses advised against are identified.		

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Carestream Health, Inc.		
Address	50 Verona Street Rochester, NY 14608 United States		
Telephone	800-328-2910		
Fax	Not Available		
Website	www.carestream.com		
Email	WW-EHS@carestreamhealth.com		

1.4. Emergency telephone number

Association / Organisation	CHEMTREC (North America)	
Emergency telephone numbers	+1-800-424-9300	
Other emergency telephone numbers	CHEMTREC (International) +1-703-527-3887	

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]	H319 - Serious Eye Damage/Eye Irritation Category 2, H317 - Sensitisation (Skin) Category 1, H341 - Germ Cell Mutagenicity Category 2, H351 - Carcinogenicity Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

2.2. Label elements

Hazard pictogram(s)





Signal word	Warning
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Hazard statement(s)

H319	Causes serious eye irritation.		
H317	May cause an allergic skin reaction.		
H341	Suspected of causing genetic defects.		
H351	Suspected of causing cancer.		

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Supplementary Phrases

Not Applicable

Precautionary statement(s) Prevention

· · · · · · · · · · · · · · · · · · ·			
P201	Obtain special instructions before use.		
P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P261	Avoid breathing mist/vapours/spray.		
P264	Wash all exposed external body areas thoroughly after handling.		
P272	Contaminated work clothing should not be allowed out of the workplace.		

Precautionary statement(s) Response

P308+P313	IF exposed or concerned: Get medical advice/ attention.			
P302+P352	IF ON SKIN: Wash with plenty of water.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

May produce discomfort of the eyes*.

Hydroquinone Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

SECTION 3 Composition / information on ingredients

3.1.Substances

See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	SCL / M-Factor	Nanoform Particle Characteristics
1.7732-18-5* 2.231-791-2 3.Not Available 4.Not Available	80-90	Water	Not Applicable	Not Available	Not Available
1.7772-98-7* 2.231-867-5 3.Not Available 4.Not Available	5-10	Sodium Thiosulfate	Not Applicable	0	Not Available
1.123-31-9* 2.204-617-8 3.604-005-00-4 4.Not Available	1-<3	Hydroquinone	Hazardous to the Aquatic Environment Acute Hazard Category 1, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Oral) Category 4, Sensitisation (Skin) Category 1, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 2; H400, H318, H302, H317, H341, H351 [1]	0	Not Available
1.7601-54-9* 2.231-509-8 3.Not Available 4.Not Available	1-<3	<u>Trisodium</u> phosphate	Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3 , Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H335, H315, H319 [1]	0	Not Available
Legend:	1	•	Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2 e: [e] Substance identified as having endocrine disrupting properties	020/1567; 3. C	lassification drawn

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact

If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

F Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper

- ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

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Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

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

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- ► Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.			
5.3. Advice for firefighters				
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. 			
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. May emit corrosive fumes. 			

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal.
Major Spills	Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Neutralise/decontaminate residue (see Section 13 for specific agent). Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs, advise emergency services.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- ► Wear protective clothing when risk of exposure occurs.

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- Use in a well-ventilated area.
- Avoid contact with moisture.
- Avoid contact with incompatible materials.
- ▶ When handling, **DO NOT** eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
 Always wash hands with soap and water after handling.
- ▶ Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
 Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
- DO NOT allow clothing wet with material to stay in contact with skin

Fire and explosion protection

Other information

7.2. Conditions for safe storage, including any incompatibilities

See section 5

Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment		
Water	Dermal 0.4 mg/kg bw/day (Systemic, Chronic) Inhalation 0.544 mg/m³ (Systemic, Chronic) Dermal 5 mg/kg bw/day (Systemic, Acute) Inhalation 8.8 mg/m³ (Systemic, Acute) Dermal 0.2 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.083 mg/m³ (Systemic, Chronic) * Oral 0.056 mg/kg bw/day (Systemic, Chronic) * Dermal 2.5 mg/kg bw/day (Systemic, Acute) * Inhalation 2.2 mg/m³ (Systemic, Acute) *	Not Available		
Sodium Thiosulfate	Inhalation 374 mg/m³ (Systemic, Chronic) Inhalation 110 mg/m³ (Systemic, Chronic) * Oral 14 mg/kg bw/day (Systemic, Chronic) *	0.8 mg/L (Water (Fresh)) 0.08 mg/L (Water - Intermittent release) 102.6 mg/L (STP)		
Hydroquinone	Dermal 3.33 mg/kg bw/day (Systemic, Chronic) Inhalation 2.1 mg/m³ (Systemic, Chronic) Dermal 1.66 mg/kg bw/day (Systemic, Chronic) * Inhalation 1.05 mg/m³ (Systemic, Chronic) * Oral 0.6 mg/kg bw/day (Systemic, Chronic) *	0.57 μg/L (Water (Fresh)) 0.057 μg/L (Water - Intermittent release) 1.34 μg/L (Water (Marine)) 4.9 μg/kg sediment dw (Sediment (Fresh Water)) 0.49 μg/kg sediment dw (Sediment (Marine)) 0.64 μg/kg soil dw (Soil) 0.71 mg/L (STP)		
Trisodium phosphate	Inhalation 4.07 mg/m³ (Systemic, Chronic) Inhalation 3.04 mg/m³ (Systemic, Chronic) *	50 mg/L (STP)		

^{*} Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
UK Workplace Exposure Limits (WELs).	Hydroquinone	Hydroquinone	0.5 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Sodium Thiosulfate	38 mg/m3	410 mg/m3	2,500 mg/m3
Hydroquinone	3 mg/m3	20 mg/m3	120 mg/m3

Ingredient	Original IDLH	Revised IDLH
Water	Not Available	Not Available
Sodium Thiosulfate	Not Available	Not Available

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Ingredient	Original IDLH	Revised IDLH
Hydroquinone	50 mg/m3	Not Available
Trisodium phosphate	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
Trisodium phosphate	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.		

8.2. Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

8.2.1. Appropriate engineering controls

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

8.2.2. Individual protection measures, such as personal protective equipment









Eye and face protection

- Safety glasses with side shields
- Chemical goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]

Skin protection

See Hand protection below

► Wear chemical protective gloves, e.g. PVC.

► Wear safety footwear or safety gumboots, e.g. Rubber NOTF:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

Hands/feet protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

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- · frequency and duration of contact.
- · chemical resistance of glove material,
- · glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- · Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- · Excellent when breakthrough time > 480 min
- · Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended

Body protection

See Other protection below

Other protection

- Overalls
- P.V.C apron.
- ► Barrier cream.
- Skin cleansing cream.
- ► Eye wash unit.

8.2.3. Environmental exposure controls

See section 12

9.1. Information on basic physical and chemical properties

SECTION 9 Physical and chemical properties

Appearance Colourless Relative density (Water = 1) Physical state Liquid 1 14 Partition coefficient n-octanol Odour No Odour Not Available / water Odour threshold Not Available Auto-ignition temperature (°C) Not Available Decomposition pH (as supplied) Not Available temperature (°C) Melting point / freezing point Not Available Viscosity (cSt) Not Available (°C) Initial boiling point and boiling > 100 Molecular weight (g/mol) Not Available range (°C) Not Available Flash point (°C) Not Available **Evaporation rate** Not Available **Explosive properties** Not Available Flammability Not Available **Oxidising properties** Not Available Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Available Not Available mN/m) Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Available 2.40 Vapour pressure (kPa) Gas group Not Available Solubility in water Not Available Miscible pH as a solution (1%) Vapour density (Air = 1) VOC a/L Not Available 0.6 **Nanoform Particle** Nanoform Solubility Not Available Not Available Characteristics

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity

Particle Size

See section 7.2

Not Available

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10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Informati	on on t	oxicolog	ical e	effects
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Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.				
Ingestion	The material has NOT been classified by EC Directives or corroborating animal or human evidence.	other classification systems as "harmful by ingestion". This is because of the lack of			
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	This material can cause eye irritation and damage in some	e persons.			
Chronic		per or mutations, but there is not enough data to make an assessment. In a some persons compared to the general population.			
CARESTREAM DENTAL X-ray	TOXICITY	IRRITATION			
Monobath	Not Available	Not Available			
	TOXICITY	IRRITATION			
Water	Oral (Rat) LD50: >90000 mg/kg ^[2]	Not Available			
	TOXICITY	IRRITATION			
	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available			
Sodium Thiosulfate	Inhalation(Rat) LC50: >2.6 mg/l4h ^[1]				
	Oral (Rat) LD50: >2000 mg/kg ^[1]				
	TOXICITY	IRRITATION			
Hydroquinone	Dermal (rabbit) LD50: >2000 mg/kg ^[1]	Not Available			
	Oral (Rat) LD50: 320 mg/kg ^[2]				
	TOXICITY	IRRITATION			
	Dermal (rabbit) LD50: >300 mg/kg ^[1]	Eye: adverse effect observed (irritating) ^[1]			
Trisodium phosphate	Inhalation(Rat) LC50: >0.83 mg/l4h ^[1]	Skin: adverse effect observed (irritating) ^[1]			
	f41	Skin: no adverse effect observed (not irritating) ^[1]			
	Oral (Rat) LD50: >500 mg/kg ^[1]	Skill. Ho adverse effect observed (not illitating).			

Trisodium phosphate

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

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Laboratory (in vitro) and animal studies show, exposure to the material may result in a possible risk of irreversible effects, with the possibility of producing mutation.

The following information refers to contact allergens as a group and may not be specific to this product.

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.

Acute Toxicity



Carcinogenicity

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Skin Irritation/Corrosion	×	Reproductivity	X
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	×
Mutagenicity	~	Aspiration Hazard	×

Legend:

X − Data either not available or does not fill the criteria for classification Data available to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

PADESTREAM DENTAL V ****	Endpoint	Test Duration (hr)	Species	Value	Source
CARESTREAM DENTAL X-ray Monobath	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
Water	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	230mg/l	2
Sodium Thiosulfate	NOEC(ECx)	504h	Crustacea	>10mg/l	2
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
	LC50	96h	Fish	40800mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	ErC50	72h	Algae or other aquatic plants	0.335mg/l	1
Undragninana	LC50	96h	Fish	0.044mg/l	2
Hydroquinone	EC50	72h	Algae or other aquatic plants	<0.033mg/l	2
	EC50	48h	Crustacea	0.061mg/l	2
	NOEC(ECx)	72h	Algae or other aquatic plants	0.002mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	NOEC(ECx)	48h	Crustacea	<52mg/l	4
Trisodium phosphate	EC50	72h	Algae or other aquatic plants	>100mg/l	2
	LC50	96h	Fish	>100mg/l	2
		48h	Crustacea	>100mg/l	2

- Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms.

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Water	LOW	LOW
Sodium Thiosulfate	HIGH	HIGH
Hydroquinone	LOW	LOW
Trisodium phosphate	HIGH	HIGH

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation		
Sodium Thiosulfate LOW (LogKOW = -1.529)			
Hydroquinone LOW (BCF = 65)			
Trisodium phosphate	LOW (LogKOW = -0.7699)		

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Ingredient	Mobility
Sodium Thiosulfate	LOW (KOC = 6.124)
Hydroquinone	LOW (KOC = 434)
Trisodium phosphate	HIGH (KOC = 1)

12.5. Results of PBT and vPvB assessment

	Р	В	Т	
Relevant available data	Not Available	Not Available	Not Available	
PBT	×	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?				
vPvB	No			

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal

Recover silver before disposal. European Waste Catalogue EWC: 09 01 99 Wastes not otherwise specified.

Dispose of in accordance with local regulations

▶ Containers may still present a chemical hazard/ danger when empty.

Return to supplier for reuse/ recycling if possible.

Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- ▶ Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ► Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

Waste treatment options Sewage disposal options

Not Available Not Available

SECTION 14 Transport information

The dangerous goods information given below is based solely on the product formulation, and does not consider the product packaging configuration.

Depending on inner packaging quantities and packaging instructions, this product may meet specific regulatory exemptions or exclusions for the various modes of transport.

Please consult the product packaging for further details or go to the "Dangerous Goods Worksheets for Chemical Products" folder, located at: ship.carestream.com.

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Early transport (ADIT). NOT RECOLLED FOR TRANSPORT OF DANGEROOD COOPE		
14.1. UN number or ID number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	

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14.3.	Transport hazard	Class Not Applicable Subsidiary risk Not Applicable			
	class(es)				
14.4.	Packing group	Not Applicable			
14.5.	Environmental hazard	Not Applicable			
		Hazard identification	on (Kemler)	Not Applicable	
		Classification code	;	Not Applicable	
14.6	Special precautions for	Hazard Label		Not Applicable	
14.0.	user	Special provisions		Not Applicable	
				Not Applicable	
		Tunnel Restriction	Code	Not Applicable	
A : 4	amonant (ICAO IATA / DCC), NOT BECUI ATE	D FOR TRA	NEDODT OF DANCEDOL	e coope
	ansport (ICAO-IATA / DGF UN number	Not Applicable	D FOR IKA	NSPORT OF DANGEROU	S GOODS
		Not Applicable			
14.2.	UN proper shipping name	Not Applicable			
14.2	Transport hazard	ICAO/IATA Class	Not App	blicable	
14.5.	class(es)	ICAO / IATA Subris	sk Not App	olicable	
		ERG Code	Not App	blicable	
14.4.	Packing group	Not Applicable			
14.5.	Environmental hazard	Not Applicable			
		Special provisions			Not Applicable
		Cargo Only Packir	g Instructions		Not Applicable
		Cargo Only Maximum Qty / Pack		<	Not Applicable
14.6.	Special precautions for user	Passenger and Cargo Packing Instructions		nstructions	Not Applicable
	4361	Passenger and Cargo Maximum Qty / Pack		Qty / Pack	Not Applicable
		Passenger and Cargo Limited Quantity Packing Instructions		uantity Packing Instructions	Not Applicable
		Passenger and Ca	rgo Limited M	aximum Qty / Pack	Not Applicable
	ansport (IMDG-Code / GC		LATED FOR	R TRANSPORT OF DANG	EROUS GOODS
		Not Applicable			
14.2.	UN proper shipping name	Not Applicable			
14.3	Transport hazard	IMDG Class	Not Applicable	e	
	class(es)	IMDG Subrisk Not Applicable			
14.4.	Packing group	Not Applicable			
14.5.	Environmental hazard	Not Applicable			
		EMS Number	Not Appli	cable	
14.6.	Special precautions for user	Special provisions Not Applicable			
	400	Limited Quantities Not Applicable			
Inland	d waterways transport (Al	ON): NOT REGUL AT	ED FOR TE	ANSPORT OF DANGERO	DUS GOODS
	UN number	Not Applicable			· · · · · · · · ·
	UN proper shipping	Not Applicable			
14.3.	Transport hazard	Not Applicable	Not Applicab	ie.	
111	class(es)	Not Applicable			
	Packing group				
14.5.	Environmental hazard	Not Applicable	NI=+ A	liaabla	
		Classification code			
14.6.	Special precautions for	Special provisions	Not App		
17.0	user	Limited quantity	Not App		
		Equipment required Not Applicable			
		Fire cones number			

14.7. Maritime transport in bulk according to IMO instruments

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Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
Water	Not Available
Sodium Thiosulfate	Not Available
Hydroquinone	Not Available
Trisodium phosphate	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Water	Not Available
Sodium Thiosulfate	Not Available
Hydroquinone	Not Available
Trisodium phosphate	Not Available

SECTION 15 Regulatory information

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

| Water is found on the following regulatory lists
| Not Applicable |
| Sodium Thiosulfate is found on the following regulatory lists
| Not Applicable |

Hydroquinone is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List Great Britain GB mandatory classification and labelling list (GB MCL) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic UK Workplace Exposure Limits (WELs).

ECHA Deceier

Trisodium phosphate is found on the following regulatory lists

Great Britain GB Biocidal Active Substances

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category

Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

ECHA SUMMARY

Ingradiant

ingrealent	CAS number	Index No		ECHA D	ossier	
Water	7732-18-5*	5* Not Available I		Not Avai	Not Available	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)		Hazard Statement Code(s)	
1	Not Classified		Not Available		Not Available	
2	Flam. Liq. 3; Acute Tox. 3; Skin Corr. 1A; Acute 2	e Tox. 2; Eye Irrit.	GHS05; Dgr; GHS02; GHS	06	H318; H226; H314; H301; H411; H335	

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier
Sodium Thiosulfate	7772-98-7*	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified	Not Available	Not Available
2	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Acute Tox. 4	GHS07; Wng	H315; H319; H335; H332; H302

 $Harmonisation \ \ Code\ 1 = The\ most\ prevalent\ classification.\ Harmonisation\ \ Code\ 2 = The\ most\ severe\ classification.$

Ingredient	CAS number	Index No	ECHA Dossier
Hydroquinone	123-31-9*	604-005-00-4	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Acute Tox. 4; Skin Sens. 1; Eye Dam. 1; Muta. 2; Carc. 2; Aquatic Acute 1	GHS08; GHS05; GHS09; Dgr	H302; H317; H318; H341; H351; H400

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Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Skin Sens. 1B; Eye Dam. 1; Carc. 2; Aquatic Acute 1; Aquatic Chronic 1; Acute Tox. 4; Skin Irrit. 2; Acute Tox. 3; Resp. Sens. 1; Muta. 1B; Repr. 1B; STOT SE 1; STOT RE 1	GHS08; GHS09; GHS05; Dgr	H317; H318; H351; H410; H400; H312; H315; H301; H334; H340; H360; H370; H372

 $Harmonisation \ \ Code\ 1 = The\ most\ prevalent\ classification.\ Harmonisation\ \ Code\ 2 = The\ most\ severe\ classification.$

Ingredient	CAS number	Index No	ECHA Dossier
Trisodium phosphate	7601-54-9*	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3	GHS07; Wng	H315; H319; H335
2	STOT SE 3; Skin Corr. 1B; Eye Dam. 1; Met. Corr. 1; Acute Tox. 3	GHS05; Dgr; GHS06	H335; H314; H318; H290; H331; H302

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (Water; Sodium Thiosulfate; Hydroquinone; Trisodium phosphate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (Trisodium phosphate)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 Other information

Revision Date	11/07/2022
Initial Date	30/03/2022

Full text Risk and Hazard codes

H226 Flammable liquid and vapour. H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Toxic if inhaled. H330 Harmful if inhaled. H331 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H332 May cause genetic defects. H340 May cause genetic defects. H360 May damage fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	Full text RISK and Hazard code	5
H301 Toxic if swallowed. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H318 Toxic if inhaled. H331 Toxic if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H340 May cause genetic defects. H360 May damage fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	H226	Flammable liquid and vapour.
Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H331 Toxic if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H340 May dause genetic defects. H360 May damage fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	H290	May be corrosive to metals.
H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H331 Toxic if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H340 May cause genetic defects. H360 May damage fertility or the unborn child. H370 Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	H301	Toxic if swallowed.
H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H331 Toxic if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H340 May cause genetic defects. H360 May damage fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	H302	Harmful if swallowed.
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H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H340 May cause genetic defects. H360 May damage fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	H318	Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H340 May cause genetic defects. H360 May damage fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	H331	Toxic if inhaled.
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H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.	H370	Causes damage to organs.
H410 Very toxic to aquatic life with long lasting effects.	H372	Causes damage to organs through prolonged or repeated exposure.
	H400	Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.	H410	Very toxic to aquatic life with long lasting effects.
	H411	Toxic to aquatic life with long lasting effects.

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Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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