# Carestream

# 5285929\_READYMATIC Developer and Replenisher (READYMATIC Developer and **Replenisher**)

# Carestream Health, Inc.

Version No: 2.2

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

Chemwatch Hazard Alert Code: 3

Issue Date: 11/01/2023 Print Date: 05/28/2025 L.REACH.GB.EN

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

#### 1.1. Product Identifier Product name 5285929 READYMATIC Developer and Replenisher (READYMATIC Developer and Replenisher) **Chemical Name** Not Applicable Not Available Svnonvms **Chemical formula** Not Applicable Other means of identification 5285929 1.2. Relevant identified uses of the substance or mixture and uses advised against Photographic chemical Relevant identified uses Restricted to professional users

Nelevant lucitation uses	Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

#### 1.3. Details of the manufacturer or importer of the safety data sheet

Registered company name	Carestream Health, Inc.	
Address	150 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	IEMTREC (North America)	
Emergency telephone number(s)	+1-800-424-9300	
Other emergency telephone number(s)	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 <sup>[1]</sup>	H317 - Sensitisation (Skin) Category 1, H319 - Serious Eye Damage/Eye Irritation Category 2, 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

Hazard statement(s)

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

#### Supplementary statement(s)

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

P501

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

Material contains potassium carbonate, hydroquinone, diethylenetriaminepentaacetic acid pentasodium salt.

#### 2.3. Other hazards

Cumulative effects may result following exposure\*.

\*LIMITED EVIDENCE

diethylenetriaminepentaacetic acid pentasodium salt

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	<u>Water</u>	Non hazardous <sup>[1]</sup>	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available
1. 123-31-9 2.204-617-8 3.604-005-00-4 4.Not Available	1-<3	<u>hydroquinone</u>	Acute Toxicity (Oral) Category 4, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Germ Cell Mutagenicity Category 2, Carcinogenicity Category 2, Hazardous to the Aquatic Environment Acute Hazard Category 1; H302, H317, H318, H341, H351, H400 <sup>[2]</sup>	M=10 Acute M factor: 10 Chronic M factor: Not Applicable	Not Available
1. 140-01-2 2.205-391-3 3.607-736-00-7 4.Not Available	<1	diethylenetriaminepentaacetic acid pentasodium salt	Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Repeated Exposure Category 2; H332, H373 <sup>[2]</sup>	Repr. 1B; H360D: $C \ge 3 \%$   inhalation: ATE = 1,5 mg/L (dusts or mists) Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available

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. 584-08-7 2.209-529-3 3.Not Available 4.Not Available	1-5	potassium carbonate	Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3; H302, H315, H319, H335 <sup>[1]</sup>	SCL: Not Available Acute M factor: Not Applicable Chronic M factor: Not Applicable	Not Available
Legend:			rawn from GB-CLP Regulation, UK SI 2019/720 and e identified as having endocrine disrupting propertie		. Classification drawn

#### **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul> Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: <ul> <li>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.</li></ul>

#### 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	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul>			
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of:         <ul> <li>metal oxides</li> <li>May emit poisonous fumes.</li> <li>May emit corrosive fumes.</li> </ul> </li> </ul>			

#### 6.1. Personal precautions, protective equipment and emergency procedures See section 8

6.2. Environmental precautions

See section 12

#### 6.3. Methods and material for containment and cleaning up

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

#### 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 handl	ing
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Fire and explosion protection	See section 5
Other information	

#### 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	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
hydroquinone	Dermal 3.33 mg/kg bw/day (Systemic, Chronic) Inhalation 2.1 mg/m <sup>3</sup> (Systemic, Chronic) Dermal 1.66 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.00105 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 0.6 mg/kg bw/day (Systemic, Chronic) *	0.00057 mg/L (Water (Fresh)) 0.00134 mg/L (Water - Intermittent release) 0.000057 mg/L (Water (Marine)) 0.0049 mg/kg sediment dw (Sediment (Fresh Water)) 0.00049 mg/kg sediment dw (Sediment (Marine)) 0.00064 mg/kg soil dw (Soil) 0.71 mg/L (STP)

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
diethylenetriaminepentaacetic acid pentasodium salt	Dermal 11718 mg/kg bw/day (Systemic, Chronic) Inhalation 1.5 mg/m <sup>3</sup> (Local, Chronic) Inhalation 3 mg/m <sup>3</sup> (Local, Acute) Dermal 5859 mg/kg bw/day (Systemic, Chronic) * Oral 1.2 mg/kg bw/day (Systemic, Chronic) * Inhalation 0.6 mg/m <sup>3</sup> (Local, Chronic) * Inhalation 1.2 mg/m <sup>3</sup> (Local, Acute) *	<ul> <li>6.4 mg/L (Water (Fresh))</li> <li>3.1 mg/L (Water - Intermittent release)</li> <li>0.64 mg/L (Water (Marine))</li> <li>23 mg/kg sediment dw (Sediment (Fresh Water))</li> <li>2.3 mg/kg sediment dw (Sediment (Marine))</li> <li>0.853 mg/kg soil dw (Soil)</li> <li>51 mg/L (STP)</li> </ul>
potassium carbonate	Inhalation 10 mg/m³ (Local, Chronic) Inhalation 10 mg/m³ (Local, Acute)	Not Available

\* Values for General Population

#### Occupational Exposure Limits (OEL)

l	ING	RED	IENT	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
Ingredient	Original IDLH			Revised IDLH		
Water	Not Available			Not Available		
hydroquinone	50 mg/m3			Not Available		
diethylenetriaminepentaacetic acid pentasodium salt	Not Available			Not Available		
potassium carbonate	Not Available			Not Available		

#### MATERIAL DATA

The recommended TLV-TWA for hydroquinone takes into account the toxicology of hydroquinone and experience of industrial exposures to benzenediols. Exposure at or below the limit is thought to minimise the risk to workers of eye injury, dermatitis and central nervous system effects. A short-term duration exposure value has not been recommended, because no quantitative data as to the levels of hydroquinone which produce eye irritation or more serious corneal changes has been identified.

#### 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 "reature velocities" of fresh circulation air required to effectively remove the contaminant					
Type of Contaminant:		Air Speed:			
solvent, vapours, degreasing etc., evaporating from tank (ir	0.25-0.5 m/s (50- 100 f/min.)				
	0.5-1 m/s (100- 200 f/min.)				
direct spray, spray painting in shallow booths, drum filling, o generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)				
grinding, abrasive blasting, tumbling, high speed wheel ger 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					
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.					
	can be highly effective in protecting workers and will typically The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a strategically "adds" and "removes" air in the work environment design of a ventilation system must match the particular proc Employers may need to use multiple types of controls to prev Local exhaust ventilation usually required. If risk of overexposi- protection. Supplied-air type respirator may be required in sp An approved self contained breathing apparatus (SCBA) may Provide adequate ventilation in warehouse or closed storage velocities which, in turn, determine the "capture velocities" of Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank (in aerosols, fumes from pouring operations, intermittent conta spray drift, plating acid fumes, pickling (released at low vel- direct spray, spray painting in shallow booths, drum filling, of generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel gen of very high rapid air motion). Within each range the appropriate value depends on: Lower end of the range 1: Room air currents minimal or favourable to capture 2: Contaminants of low toxicity or of nuisance value only. 3: Intermittent, low production. 4: Large hood or large air mass in motion Simple theory shows that air velocity falls rapidly with distance decreases with the square of distance from the extraction poi adjusted, accordingly, after reference to distance from the co a minimum of 1-2 m/s (200-400 f/min) for extraction of solver mechanical considerations, producing performance deficits w	can be highly effective in protecting workers and will typically be independent of worker interactions to provide this hig 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 v strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if c 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 essen protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure ade 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 poss velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the co Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank (in still air). 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) direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion). Within each range the appropriate value depends on: Lower end of the range 1: Room air currents minimal or favourable to capture 1: Disturb			

Eye and face protection

Safety glasses with side shields.

Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
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].
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>NOTE:</li> <li>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.</li> <li>Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.</li> <li>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.</li> <li>The selection to be checked prior to the application.</li> <li>Personal Inygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dired thoroughly. Application of a non-perfumed moisturiser is recommended.</li> <li>Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:         <ul> <li>there is a same and the standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).</li> <li>When onybard is expected, 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.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term take.</li> <li>Gondaminated gloves should be replaced.</li> <li>Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term take.</li> <li>Gond when breakthrough time &gt; 480 min</li> <li>Good whe</li></ul></li></ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

# Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: 5285929\_READYMATIC Developer and Replenisher (READYMATIC Developer and Replenisher)

Material	СРІ
NATURAL RUBBER	A
NITRILE	A
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	C
PVC	C

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. \* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### Ansell Glove Selection

Glove — In order of recommendation
AlphaTec 02-100
AlphaTec® Solvex® 37-185
AlphaTec® 38-612

AlphaTec® 58-008		
AlphaTec® 58-530B		
AlphaTec® 58-530W		
AlphaTec® 58-735		
AlphaTec® 79-700		
AlphaTec® Solvex® 37-675		
DermaShield™ 73-711		

The suggested gloves for use should be confirmed with the glove supplier.

#### 8.2.3. Environmental exposure controls

See section 12

#### **SECTION 9 Physical and chemical properties**

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

Appearance	Colourless		
Physical state	Liquid	Relative density (Water = 1)	1.08
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	10.1	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>100	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2.4	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	0.6	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

#### **SECTION 10 Stability and reactivity**

10.1.Reactivity	See section 7.2
10.2. Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
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. Information on toxicological effects

a) Acute Toxicity	Based on available data, the classification criteria are not met.	
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.	
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating	

d) Respiratory or Skin	There is sufficient ouidenes to cleasify this material as consitiv	aing to akin or the reaniratory avetem		
sensitisation	There is sufficient evidence to classify this material as sensitis			
e) Mutagenicity	There is sufficient evidence to classify this material as mutagenic			
f) Carcinogenicity	There is sufficient evidence to classify this material as carcinogenic			
g) Reproductivity	Based on available data, the classification criteria are not met.			
h) STOT - Single Exposure	Based on available data, the classification criteria are not met.			
i) STOT - Repeated Exposure	Based on available data, the classification criteria are not met.			
j) Aspiration Hazard	Based on available data, the classification criteria are not met			
Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.			
Ingestion	Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual.			
Skin Contact	individuals following direct contact, and/or produces significan hours, such inflammation being present twenty-four hours or r after prolonged or repeated exposure; this may result in a forr skin redness (erythema) and swelling (oedema) which may pr the microscopic level there may be intercellular oedema of the epidermis. The material may accentuate any pre-existing dermatitis cond Open cuts, abraded or irritated skin should not be exposed to Entry into the blood-stream through, for example, cuts, abrasis effects. Examine the skin prior to the use of the material and e	this material ons, puncture wounds or lesions, may produce systemic injury with harmful		
Eye	This material causes serious eye irritation.			
	effects; in respect of the available information, however, there Repeated or long-term occupational exposure is likely to prod Practical experience shows that skin contact with the material individuals, and/or of producing a positive response in experin Substances that can cause occupational asthma (also known airway hyper-responsiveness via an immunological, irritant or	as asthmagens and respiratory sensitisers) can induce a state of specific other mechanism. Once the airways have become hyper-responsive, further		
Chronic	a runny nose to asthma. Not all workers who are exposed to a advance who are likely to become hyper-responsive. Substances than can cuase occupational asthma should be d people with pre-existing air-way hyper-responsiveness. The la Wherever it is reasonably practicable, exposure to substances possible the primary aim is to apply adequate standards of co Activities giving rise to short-term peak concentrations should surveillance is appropriate for all employees exposed or liable there should be appropriate consultation with an occupational	, may cause respiratory symptoms. These symptoms can range in severity from a sensitiser will become hyper-responsive and it is impossible to identify in listinguished from substances which may trigger the symptoms of asthma in atter substances are not classified as asthmagens or respiratory sensitisers s that can cuase occupational asthma should be prevented. Where this is not introl to prevent workers from becoming hyper-responsive. I receive particular attention when risk management is being considered. Health to be exposed to a substance which may cause occupational asthma and I health professional over the degree of risk and level of surveillance. hat human exposure to the material may result in the development of heritable		
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5285929_READYMATIC Developer and Replenisher (READYMATIC Developer and Replenisher) Water hydroquinone	a runny nose to asthma. Not all workers who are exposed to a advance who are likely to become hyper-responsive. Substances than can cuase occupational asthma should be d people with pre-existing air-way hyper-responsiveness. The la Wherever it is reasonably practicable, exposure to substances possible the primary aim is to apply adequate standards of co Activities giving rise to short-term peak concentrations should surveillance is appropriate for all employees exposed or liable there should be appropriate consultation with an occupational There is sufficient evidence to provide a strong presumption ti genetic damage, generally on the basis of - appropriate animal studies, - other relevant information <b>TOXICITY</b> Not Available <b>TOXICITY</b> Dermal (rabbit) LD50: >90000 mg/kg <sup>[2]</sup> <b>TOXICITY</b> Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Oral (Rat) LD50: 320 mg/kg <sup>[2]</sup> <b>TOXICITY</b> dermal (rat) LD50: >2000 mg/kg <sup>[1]</sup> Oral (Rat) LD50: >2000 mg/kg <sup>[1]</sup>	a sensitiser will become hyper-responsive and it is impossible to identify in listinguished from substances which may trigger the symptoms of asthma in atter substances are not classified as asthmagens or respiratory sensitisers is that can cuase occupational asthma should be prevented. Where this is not introl to prevent workers from becoming hyper-responsive. Ireceive particular attention when risk management is being considered. Health to be exposed to a substance which may cause occupational asthma and thealth professional over the degree of risk and level of surveillance. hat human exposure to the material may result in the development of heritable <b>IRRITATION</b> Not Available <b>IRRITATION</b> Eye: adverse effect observed (irritating) <sup>[1]</sup> Skin (Human): 2% - Mild Skin (Human): 2% - Mild Skin (Human): 3% Skin (Human): 5% - Severe Skin (Rodent - mouse): 10%/48H - Mild Skin : no adverse effect observed (not irritating) <sup>[1]</sup> Skin : no adverse effect observed (not irritating) <sup>[1]</sup> Skin : no adverse effect observed (not irritating) <sup>[1]</sup> Kin: no adverse effect observed (not irritating) <sup>[1]</sup>		

-	e obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise ed data extracted from RTECS - Register of Toxic Effect of chemical Substances
HYDROQUINONE	The material may produce severe skin irritation after prolonged or repeated exposure, and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erytherma) thickening of the epidermis. Histologically there may be intercellular oedema of the sponty layer (spongiosis) and Intracellular oedema of the epidermis. Prolonged contact is unikely, given the severity of response. but presende exposures may produce severe ulceration. Hydroquinone is rapidly and extensively absorbed from the gut and lungs of animals. Absorption via the skin is skow that may be benzoquinone and other oxidised products, and is devolated by upgation to monogular, and mercapturic derivatives. The excretion of hydroquinone and its metabolites is rapid, and occurs primarity via the urine. Hydroquinone exaltes transitier in animals. The ability to induce sensitization thas been found to vary from "veak" to "strong" depending on the lest procedure and vehicle used. Repeated orial dosing caused transitier in animals. The ability to induce sensitization the skineys were reported in "Systague-Dawy depending on the lest procedure and vehicle used. Repeated orial dosing caused trads (>=100 mg/kg). No aberes effects on the kineys were reported in "Systague-Dawy normased lives were (>=200 mg/kg). and mraition of the forestomatic (>=200 mg/kg). Anuchonal observational battery and neuropathological examinations of rats failed to give any evidence of persistent or structural neurotoxicity after repeated dosing for 90 days. A NOEL to real effects was 20 mg/kg per edw. Fourteen days of repeated dermal dosing caused reduced body weights of male rats at the 3840 mg/kg dose level (% file/relative to file excitories). Levels were stock to the adverse effects or compound- related effects occured in organ weight, clinical pathology, or instopathology A NOEL was not determined because of the dermal molin-watte of file adverse effects or the weight of the devised of % hydroquinone (4 mg/kg in male
DIETHYLENETRIAMINEPENTAACETIC ACID PENTASODIUM SALT	No significant acute toxicological data identified in literature search.
POTASSIUM CARBONATE	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.
5285929_READYMATIC Developer and Replenisher (READYMATIC Developer and Replenisher) & HYDROQUINONE	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

Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			t available or does not fill the criteria for classification 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**

5285929_READYMATIC	Endpoint	Test Duration (hr)	Species	Value	Source
Developer and Replenisher (READYMATIC Developer and Replenisher)	Not Available	Not Available	Not Available	Not Available	Not Available
Water	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	0.061mg/l	2
	EC50	72h	Algae or other aquatic plants	<0.033mg/l	2
hydroquinone	ErC50	72h	Algae or other aquatic plants	0.335mg/l	1
	NOEC(ECx)	72h	Algae or other aquatic plants	0.002mg/l	2
	LC50	96h	Fish	0.044mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	48h	Crustacea	>500mg/l	1
liethylenetriaminepentaacetic	EC50	72h	Algae or other aquatic plants	2.6mg/l	1
acid pentasodium salt	NOEC(ECx)	Not Available	Crustacea	1mg/l	2
	LC50	96h	Fish	1005- 1250mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
notopolium park-mete	LC50	96h	Fish	68mg/l	2
potassium carbonate	EC50	48h	Crustacea	200mg/l	2
	NOEC(ECx)	96h	Fish	33mg/l	2

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Japan) - Bioconcentration Data 8. Vendor Data

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

For Metal:

Atmospheric Fate - Metal-containing inorganic substances generally have negligible vapour pressure and are not expected to partition to air.

Environmental Fate: Environmental processes, such as oxidation, the presence of acids or bases and microbiological processes, may transform insoluble metals to more soluble ionic forms. Environmental processes may enhance bioavailability and may also be important in changing solubilities.

Aquatic/Terrestrial Fate: When released to dry soil, most metals will exhibit limited mobility and remain in the upper layer; some will leach locally into ground water and/ or surface water ecosystems when soaked by rain or melt ice. A metal ion is considered infinitely persistent because it cannot degrade further. Once released to surface waters and moist soils their fate depends on solubility and dissociation in water. A significant proportion of dissolved/ sorbed metals will end up in sediments through the settling of suspended particles. The remaining metal ions can then be taken up by aquatic organisms. Ionic species may bind to dissolved ligands or sorb to solid particles in water. Ecotoxicity: Even though many metals show few toxic effects at physiological pH levels, transformation may introduce new or magnified effects.

#### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Water	LOW	LOW
hydroquinone	LOW	LOW

#### 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation	
Water	LOW (LogKOW = -1.38)	
hydroquinone	LOW (BCF = 65)	

Ingredient	Bioaccumulation
diethylenetriaminepentaacetic acid pentasodium salt	LOW (LogKOW = -16.25)
12.4. Mobility in soil	
Ingredient	Mobility

#### 12.5. Results of PBT and vPvB assessment

	Р	в	т	PBT criteria fulfilled?	vP	vB	vPvB criteria fulfilled?
5285929_READYMATIC Developer and Replenisher (READYMATIC Developer and Replenisher)	×	×	~	No	×	×	No
Water	×	×	×	No	×	×	No
hydroquinone	×	×	<b>~</b>	No	×	×	No
diethylenetriaminepentaacetic acid pentasodium salt	*	×	~	No	×	×	No
potassium carbonate	No data available	No data available	No data available	No	No data available	No data available	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**

Product / Packaging disposal	<ul> <li>Dispose of in accordance with local regulations</li> <li>Containers may still present a chemical hazard/ danger when empty.</li> <li>Return to supplier for reuse/ recycling if possible.</li> <li>Otherwise:</li> <li>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.</li> <li>Where possible retain label warnings and SDS and observe all notices pertaining to the product.</li> <li>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.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate:</li> <li>Reduction</li> <li>Recuse</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> <li>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 appropriate.</li> <li>D ON To allow wash water from cleaning or process equipment to enter drains.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible.</li> <li>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.</li> <li>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 sefuguards until containers are cleaned and destroyed.</li> </ul>
Waste treatment options	Not Available
Waste treatment options	<ul> <li>apparatus (after admixture with suitable combustible material).</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>

#### **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

number

Marine Pollutant	NO	
HAZCHEM	Not Applicable	
Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS		
14.1. UN number or ID	Not Applicable	

14.2. UN proper shipping name	Not Applicable			
14.3. Transport hazard	Class Not Applicable			
class(es)	Subsidiary Hazard Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Hazard identification	(Kemler)	Not Applicable	
	Classification code		Not Applicable	
	Hazard Label		Not Applicable	
	Special provisions		Not Applicable	
	Limited quantity		Not Applicable	
	Transport Category		Not Applicable	
	Tunnel Restriction C	ode	Not Applicable	

#### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable				
14.2. UN proper shipping name	Not Applicable				
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard	Not Applicable Not Applicable			
01033(03)	ERG Code Not Applicable				
14.4. Packing group	Not Applicable				
14.5. Environmental hazard	Not Applicable				
	Special provisions		Not Applicable		
	Cargo Only Packing Instructions		Not Applicable		
	Cargo Only Maximum Qty / Pack		Not Applicable		
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		Not Applicable		
4001	Passenger and Cargo Maximum Qty / Pack		Not Applicable		
	Passenger and Cargo Limited Quantity Packing Instructions		Not Applicable		
	Passenger and Cargo Limited Ma	aximum Qty / Pack	Not Applicable		

#### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	lot Applicable			
14.2. UN proper shipping name	Not Applicable	Not Applicable			
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Haza	Not Applicable       ard     Not Applicable			
14.4. Packing group	Not Applicable				
14.5 Environmental hazard	Not Applicable				
14.6. Special precautions for user	Special provisions	Not Applicable Not Applicable Not Applicable			

#### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	Not Applicable			
14.2. UN proper shipping name	Not Applicable	Not Applicable			
14.3. Transport hazard class(es)	Not Applicable No	Not Applicable Not Applicable			
14.4. Packing group	Not Applicable	Not Applicable			
14.5. Environmental hazard	Not Applicable				
14.6. Special precautions for user	Classification code Special provisions Limited quantity Equipment required Fire cones number	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable			

#### 14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

#### Not Applicable

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

Product name	Group
Water	Not Available
hydroquinone	Not Available
diethylenetriaminepentaacetic acid pentasodium salt	Not Available
potassium carbonate	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
Water	Not Available
hydroquinone	Not Available
diethylenetriaminepentaacetic acid pentasodium salt	Not Available
potassium carbonate	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

#### 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 List)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

UK Workplace Exposure Limits (WELs).

#### diethylenetriaminepentaacetic acid pentasodium salt is found on the following regulatory lists

Great Britain GB mandatory classification and labelling list (GB MCL List)

#### potassium carbonate is found on the following regulatory lists

Not Applicable

# Additional Regulatory Information

Not Applicable

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.

#### National Inventory Status

Netional Incontant	Pintur .
National Inventory	Status
Australia - AIIC / Australia Non- Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (Water; hydroquinone; diethylenetriaminepentaacetic acid pentasodium salt; potassium carbonate)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
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**

Initial Date	03/28/2022		
Full text Risk and Hazard code	s		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		

#### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.2	10/31/2023	Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Toxicological information - Acute Health (swallowed), Toxicological information - Chronic Health, Hazards identification - Classification, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Firefighting measures - Fire Fighter (fire/explosion hazard), First Aid measures - First Aid (eye), First Aid measures - First Aid (swallowed), Composition / information on ingredients - Ingredients

#### Other information

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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- MARPOL: International Convention for the Prevention of Pollution from Ships
- IMSBC: International Maritime Solid Bulk Cargoes Code
- IGC: International Gas Carrier Code
- IBC: International Bulk Chemical Code

#### 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

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Sensitisation (Skin) Category 1, H317	Calculation method
Serious Eye Damage/Eye Irritation Category 2, H319	Minimum classification
Germ Cell Mutagenicity Category 2, H341	Calculation method

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Carcinogenicity Category 2, H351	Calculation method

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