

READYMATIC Developer and Replenisher

Carestream Health, Inc.

Chemwatch Hazard Alert Code: 3

Issue Date: **15/07/2022**Print Date: **04/05/2023**S.REACH.GB.EN

Part Number: **5285945**Version No: **1.1**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

| Product name | READYMATIC Developer and Replenisher |
|-------------------------------|--------------------------------------|
| 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 | 0 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, H360FD - Reproductive Toxicity Category 1B, 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 Danger

Hazard statement(s)

| H319 | Causes serious eye irritation. | | |
|--------|--|--|--|
| H360FD | May damage fertility. May damage the unborn child. | | |
| H317 | May cause an allergic skin reaction. | | |
| H341 | Suspected of causing genetic defects. | | |

Part Number: **5285945** Page 2 of 13

Version No: 1.1 **READYMATIC Developer and Replenisher** Issue Date: 15/07/2022 Print Date: 04/05/2023

H351

Suspected of causing cancer.

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

P501 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) | | |
|---------------|--|--|--|
| Sodium borate | Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation | | |
| Sodium borate | 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> | Not Applicable | Not Available | 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 |
| 1.584-08-7* 2.209-529-3 3.Not Available 4.Not Available | 1-5 | Potassium carbonate | 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 |
| 1.1330-43-4* 2.215-540-4 3.005-011-00-4 4.Not Available | <1 | Sodium borate | Reproductive Toxicity Category 1B; H360FD ^[1] | 0 | Not Available |
| Legend: | | • | Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2 | 2020/1567; 3. C | lassification drawn |

from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

SECTION 4 First aid measures

4.1. Description of first aid measures

If this product comes in contact with the eyes:

Wash out immediately with fresh running water. **Eye Contact**

Finsure 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.

Part Number: 5285945 Page 3 of 13 Issue Date: 15/07/2022 Version No: 1.1 Print Date: 04/05/2023

READYMATIC Developer and Replenisher

| | 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. |
|--------------|---|
| 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

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

See section 8

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

Part Number: 5285945 Page 4 of 13 Issue Date: 15/07/2022 Version No: 1.1 Print Date: 04/05/2023

READYMATIC Developer and Replenisher

Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. ▶ 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. Safe handling 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. Dbserve 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 See section 5 Other information

7.2. Conditions for safe storage, including any incompatibilities

| 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 |
| 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) |
| Potassium carbonate | Dermal 16 mg/cm² (Local, Chronic) Inhalation 10 mg/m³ (Local, Chronic) Dermal 8 mg/cm² (Local, Chronic) * Inhalation 10 mg/m³ (Local, Chronic) * | Not Available |
| Sodium borate | Dermal 316.4 mg/kg bw/day (Systemic, Chronic) Inhalation 6.7 mg/m³ (Systemic, Chronic) Dermal 159.5 mg/kg bw/day (Systemic, Chronic) * Inhalation 3.4 mg/m³ (Systemic, Chronic) * Oral 0.79 mg/kg bw/day (Systemic, Chronic) * Oral 0.79 mg/kg bw/day (Systemic, Acute) * | 2.9 mg/L (Water (Fresh)) 2.9 mg/L (Water - Intermittent release) 13.7 mg/L (Water (Marine)) 5.7 mg/kg soil dw (Soil) 10 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 |
| UK Workplace Exposure Limits (WELs). | Sodium borate | Disodium tetraborate, anhydrous | 1 mg/m3 | Not Available | Not Available | Not Available |

 Part Number: 5285945
 Page 5 of 13
 Issue Date: 15/07/2022

 Version No: 1.1
 Print Date: 04/05/2023

READYMATIC Developer and Replenisher

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|---------------------|-----------|----------|-----------|
| Hydroquinone | 3 mg/m3 | 20 mg/m3 | 120 mg/m3 |
| Potassium carbonate | 5.6 mg/m3 | 62 mg/m3 | 370 mg/m3 |
| Sodium borate | 6 mg/m3 | 88 mg/m3 | 530 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|---------------------|---------------|---------------|
| Water | Not Available | Not Available |
| Hydroquinone | 50 mg/m3 | Not Available |
| Potassium carbonate | Not Available | Not Available |
| Sodium borate | Not Available | Not Available |

Occupational Exposure Banding

| Ingredient | Occupational Exposure Band Rating | Occupational Exposure Band Limit |
|---------------------|--|--|
| Potassium carbonate | Е | ≤ 0.01 mg/m³ |
| Notes: | Occupational exposure handing is a process of assigning chemicals into s | enecific categories or hands hased on a chemical's notency and the |

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:

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a

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

range of exposure concentrations that are expected to protect worker health.

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.

| 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.) |

8.2.1. Appropriate engineering controls

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.

Upper end of the range

1: Disturbing room air currents

2: Contaminants of high toxicity

3: High production, heavy use

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.

4: Small hood-local control only

8.2.2. Individual protection measures, such as personal protective equipment





Safety glasses with side shields.

4: Large hood or large air mass in motion

Within each range the appropriate value depends on:





Contact lenses ma

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

Eye and face protection

Skin protection See Hand protection below

national equivalent]

Hands/feet protection

Wear chemical protective gloves, e.g. PVC.
 Wear safety footwear or safety gumboots, e.g. Rubber

NOTE:

The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective

Part Number: 5285945 Issue Date: 15/07/2022 Page 6 of 13 Version No: 1.1

READYMATIC Developer and Replenisher

Print Date: 04/05/2023

equipment, to avoid all possible skin contact.

Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

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:

- · 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 Overalls. P.V.C apron. Other protection Barrier cream. ► Skin cleansing cream.

► Eye wash unit.

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 | No Odour | 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 Available | 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 |
| Nanoform Solubility | Not Available | Nanoform Particle Characteristics | Not Available |
| Particle Size | Not Available | | |

Version No: 1.1 **READYMATIC Developer and Replenisher** Issue Date: 15/07/2022 Print Date: 04/05/2023

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

| 10.1.Reactivity | See section 7.2 |
|--|--|
| 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. Information on toxicologic | cal effects | | |
|----------------------------------|---|---------------|--|
| Inhaled | The material is not thought to produce adverse health effects or irritation models). Nevertheless, good hygiene practice requires that exposure be occupational setting. | , , , | |
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. | | |
| 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 persons. | | |
| Chronic | There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. | | |
| | | | |
| READYMATIC Developer and | TOXICITY | IRRITATION | |
| Replenisher | Not Available | Not Available | |
| Water | TOXICITY | IRRITATION | |
| Water | Oral (Rat) LD50: >90000 mg/kg ^[2] | Not Available | |

| READYMATIC Developer and | TOXICITY | IRRITATION |
|------------------------------------|--|---------------------------|
| Replenisher | Not Available | Not Available |
| | тохісіту | IRRITATION |
| Water | Oral (Rat) LD50: >90000 mg/kg ^[2] | Not Available |
| | TOXICITY | IRRITATION |
| Hydroquinone | Dermal (rabbit) LD50: >2000 mg/kg ^[1] | Not Available |
| | Oral (Rat) LD50: 320 mg/kg ^[2] | |
| | | |
| | TOXICITY | IRRITATION |
| Potassium carbonate | TOXICITY Dermal (rabbit) LD50: >2000 mg/kg ^[1] | IRRITATION Not Available |
| Potassium carbonate | | |
| Potassium carbonate | Dermal (rabbit) LD50: >2000 mg/kg ^[1] | |
| Potassium carbonate Sodium borate | Dermal (rabbit) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: 1870 mg/kg ^[2] | Not Available |
| | Dermal (rabbit) LD50: >2000 mg/kg ^[1] Oral (Rat) LD50: 1870 mg/kg ^[2] TOXICITY | Not Available IRRITATION |

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.

READYMATIC Developer and Replenisher & Hydroquinone

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,

Part Number: **5285945** Page **8** of **13**

Version No: 1.1

READYMATIC Developer and Replenisher

Issue Date: **15/07/2022**Print Date: **04/05/2023**

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 | × |

Legend:

★ - 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

| DEADVMATIC Developer and | Endpoint | Test Duration (hr) | Species | Value | Source |
|---|------------------|--------------------|---|------------------|------------------|
| READYMATIC Developer and Replenisher | 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 |
| Hydroquinone | ErC50 | 72h | Algae or other aquatic plants | 0.335mg/l | 1 |
| | LC50 | 96h | Fish | 0.044mg/l | 2 |
| | 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 |
| Potassium carbonate | NOEC(ECx) | 96h | Fish | 33mg/l | 2 |
| Potassium carbonate | LC50 | 96h | Fish | 68mg/l | 2 |
| | EC50 | 48h | Crustacea | 200mg/l | 2 |
| | Endpoint | Test Duration (hr) | Species | Value | Sourc |
| O. Possi Lorente | LC50 | 96h | Fish | 1900mg/l | 4 |
| Sodium borate | EC50(ECx) | 96h | Algae or other aquatic plants | 2.6-21.8mg/l | 4 |
| | EC50 | 96h | Algae or other aquatic plants | 2.6-21.8mg/l | 4 |
| Legend: | Ecotox databa | | HA Registered Substances - Ecotoxicological Informati Aquatic Hazard Assessment Data 6. NITE (Japan) - Bio | | |

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 |
| Hydroquinone | LOW | LOW |

12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation |
|--------------|-----------------|
| Hydroquinone | LOW (BCF = 65) |

12.4. Mobility in soil

| Ingredient | Mobility |
|--------------|-----------------|
| Hydroquinone | LOW (KOC = 434) |

Part Number: 5285945 Page 9 of 13

Version No: 1.1

READYMATIC Developer and Replenisher

Issue Date: 15/07/2022 Print Date: 04/05/2023

12.5. Results of PBT and vPvB assessment

| | P | В | Т | |
|-------------------------|---------------|---------------|---------------|--|
| Relevant available data | Not Available | Not Available | Not Available | |
| PBT | X | × | × | |
| vPvB | X | × | × | |
| PBT Criteria fulfilled? | | | No | |
| 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

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) Product / Packaging disposal

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

Not Available

Sewage disposal options

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

| 14.1. UN number or ID number | Not Applicable | |
|----------------------------------|---|--|
| 14.2. UN proper shipping name | lot Applicable | |
| 14.3. Transport hazard class(es) | Class Not Applicable Subsidiary risk Not Applicable | |
| 14.4. Packing group | Not Applicable | |
| 14.5. Environmental hazard | Not Applicable | |

Version No: 1.1 **READYMATIC Developer and Replenisher** Issue Date: 15/07/2022 Print Date: 04/05/2023

| | 1 10 |
|-------------------------------|------|
| | Cla |
| 14.6. Special precautions for | Ha |
| user | Sp |
| | Lir |

| Hazard identification (Kemler) | Not Applicable |
|--------------------------------|----------------|
| Classification code | Not Applicable |
| Hazard Label | Not Applicable |
| Special provisions | Not Applicable |
| Limited quantity | Not Applicable |
| Tunnel Restriction Code | 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 | | | |
| | ICAO/IATA Class Not Applicable | | | |
| 14.3. Transport hazard class(es) | ICAO / IATA Subrisk | ICAO / IATA Subrisk Not Applicable | | |
| olassics | ERG Code | ERG Code Not Applicable | | |
| 14.4. Packing group | Not Applicable | 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 | |
| usei | Passenger and Cargo Maximum Qty / Pack | | Not Applicable | |
| | Passenger and Cargo Limited Quantity Packing Instructions | | Not Applicable | |
| | Passenger and Cargo | Limited Maximum Qty / Pack | Not Applicable | |

Sea transport (IMDG-Code / GGVSee): 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) | IMDG Class Not Applicable IMDG Subrisk Not Applicable | | |
| 14.4. Packing group | Not Applicable | | |
| 14.5. Environmental hazard | Not Applicable | | |
| 14.6. Special precautions for user | EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable | | |

Inland waterways transport (ADN): 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) | Not Applicable No | ot Applicable |
| 14.4. Packing group | Not Applicable | |
| 14.5. Environmental hazard | Not Applicable | |
| | Classification code Special provisions | Not Applicable Not Applicable |
| 14.6. Special precautions for user | Limited quantity | Not Applicable |
| usei | Equipment required | Not Applicable |
| | Fire cones number | 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 |

Page **11** of **13**

Part Number: **5285945** Version No: **1.1**

READYMATIC Developer and Replenisher

Issue Date: **15/07/2022**Print Date: **04/05/2023**

| Product name | Group |
|---------------------|---------------|
| Hydroquinone | Not Available |
| Potassium carbonate | Not Available |
| Sodium borate | Not Available |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|---------------------|---------------|
| Water | Not Available |
| Hydroquinone | Not Available |
| Potassium carbonate | Not Available |
| Sodium borate | 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) International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic UK Workplace Exposure Limits (WELs).

Potassium carbonate is found on the following regulatory lists

Not Applicable

Sodium borate is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List Great Britain GB Biocidal Active Substances Great Britain GB mandatory classification and labelling (GB MCL) technical reports Great Britain GB mandatory classification and labelling list (GB MCL)
UK REACH Candidate List of substances of very high concern (SVHC) for
Authorisation

UK Workplace Exposure Limits (WELs).

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

| Ingredient | CAS number | Index No | | ECHA E | Oossier |
|--------------------|-----------------------------------|---------------|------------------------|---------|--------------------------|
| Water | 7732-18-5* | Not Available | | Not Ava | ilable |
| Harmonisation (C&L | | | Pictograms Signal Word | | |
| Inventory) | Hazard Class and Category Code(s) | | Code(s) | | Hazard Statement Code(s) |

| 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 Tox. 2; Eye Irrit. | GHS05; Dgr; GHS02; GHS06 | 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 |
|--------------|------------|--------------|---------------|
| Hydroguinone | 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 |
| 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 |
|---------------------|------------|---------------|---------------|
| Potassium carbonate | 584-08-7* | Not Available | Not Available |

| Harmonisation (C&L Inventory) | Hazard Class and Category Code(s) | Pictograms Signal Word Code(s) | Hazard Statement Code(s) |
|-------------------------------|-----------------------------------|--------------------------------|--------------------------|
| 1 | Eye Irrit. 2 | GHS07; Wng | H319 |

Part Number: **5285945** Page 12 of 13 Issue Date: 15/07/2022 Version No: 1.1 Print Date: 04/05/2023

READYMATIC Developer and Replenisher

| Harmonisation (C&L Inventory) | Hazard Class and Category Code(s) | Pictograms Signal Word Code(s) | Hazard Statement Code(s) |
|-------------------------------|--|--------------------------------|---------------------------------------|
| 2 | STOT SE 3; Acute Tox. 2; Eye Dam. 1; Acute Tox. 2; Skin Corr. 1A; Acute Tox. 4 | Dgr; GHS06; GHS05 | H335; H301; H318; H310; H314; H332 |

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

| Ingredient | CAS number | Index No | ECHA Dossier |
|---------------|------------|--------------|---------------|
| Sodium borate | 1330-43-4* | 005-011-00-4 | Not Available |

| Harmonisation (C&L Inventory) | Hazard Class and Category Code(s) | Pictograms Signal Word Code(s) | Hazard Statement Code(s) |
|-------------------------------|--|--------------------------------|--------------------------|
| 1 | Repr. 1B | GHS08; Dgr | H360 |
| 2 | Acute Tox. 4; Eye Dam. 1; Acute Tox. 4; Repr. 1B | GHS08; Dgr | H360FD; H302; H318; H332 |

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; Hydroquinone; Potassium carbonate; Sodium borate) | |
| 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 | 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

| Revision Date | 15/07/2022 |
|---------------|------------|
| Initial Date | 29/03/2022 |

Full text Risk and Hazard codes

| Full text Risk and Hazard codes | | |
|---------------------------------|--|--|
| H226 | Flammable liquid and vapour. | |
| H301 | Toxic if swallowed. | |
| H302 | Harmful if swallowed. | |
| H310 | Fatal in contact with skin. | |
| H312 | Harmful in contact with skin. | |
| H314 | Causes severe skin burns and eye damage. | |
| H315 | Causes skin irritation. | |
| H318 | Causes serious eye damage. | |
| 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. | |
| H411 | Toxic to aquatic life with long lasting effects. | |
| | | |

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

Part Number: 5285945 Page 13 of 13 Issue Date: 15/07/2022 Version No: 1.1

READYMATIC Developer and Replenisher

Print Date: 04/05/2023

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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