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

### 1.1 Product identifier

- Trade name BR® 6747-1 WATER BASED PRIMER, 20-40% SOLIDS

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

**Uses of the Substance/Mixture**

- Primers

**Uses advised against**

- Toys and Childcare products

### 1.3 Details of the supplier of the safety data sheet

**Company**

CYTEC ENGINEERED MATERIALS LTD
WREXHAM INDUSTRIAL ESTATE
ABENBURY WAY
WREXHAM CLWYD LL13 9UZ
Tel: +44 197866 5200

**E-mail address**

For questions about SDS content: manager.sds@syensqo.com
For all other topics use: www.syensqo.com/en/form/documentation

### 1.4 Emergency telephone number

+44(0)1235 239 670 [CareChem 24]

### Disclaimer

The ® indicates a Registered Trademark in the United States and the ™ indicates a trademark in the United States. The mark may also be registered, subject of an application for registration, or a trademark in other countries.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008, as retained and amended in GB law.**

| | |
|---|---|
| Acute toxicity, Category 4 | H332: Harmful if inhaled. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Germ cell mutagenicity, Category 1B | H340: May cause genetic defects. |
| Carcinogenicity, Category 1A | H350: May cause cancer. |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

### 2.2 Label elements

**GB Harmonized System of Classification and Labelling of Chemicals (GB CLP)**

**Hazardous products which must be listed on the label**

- Index-No. 024-009-00-4 strontium chromate
- CAS-No. 28906-96-9 Bisphenol A novolac resin
- CAS-No. 13080-86-9 4,4'-[isopropylidenebis(4,1-phenyleneoxy)]dianiline
- Index-No. 056-002-00-7 barium chromate

**Pictogram**

**Signal word**

- Danger

**Hazard statements**

| | |
|---|---|
| - H317 | May cause an allergic skin reaction. |
| - H332 | Harmful if inhaled. |
| - H340 | May cause genetic defects. |
| - H350 | May cause cancer. |
| - H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**

Prevention

| | |
|---|---|
| - P201 | Obtain special instructions before use. |
| - P261 | Avoid breathing mist or vapours. |
| - P273 | Avoid release to the environment. |
| - P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |

Response

| | |
|---|---|
| - P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| - P391 | Collect spillage. |

**Additional Labeling**

- AUTHORISATION NUMBER FOR STRONTIUM CHROMATE: 34UKREACH/20/12/2

### 2.3 Other hazards which do not result in classification

**Results of PBT and vPvB assessment**

- Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.
- Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
- According to the available data on the components

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

- Not applicable, this product is a mixture.

### 3.2 Mixture

- Chemical nature Epoxy resin

**Information on Components and Impurities**

| Chemical name | Identification number | Classification according to Regulation (EC) No 1272/2008, as retained and amended in GB law. | Concentration [%] |
|---|---|---|---|

| | | | |
|---|---|---|---|
| strontium chromate | Index-No. : 024-009-00-4<br>CAS-No. : 7789-06-2<br>EINECS-No. : 232-142-6 | Acute toxicity, Category 4 ; H302<br>Acute toxicity, Category 2 ; H330<br>Eye irritation, Category 2 ; H319<br>Skin sensitisation, Sub-category 1B ; H317<br>Germ cell mutagenicity, Category 2 ; H341<br>Carcinogenicity, Category 1B ; H350<br>Specific target organ toxicity - single exposure, Category 3 ; H335 (Respiratory system)<br>Short-term (acute) aquatic hazard, Category 1 ; H400<br>Long-term (chronic) aquatic hazard, Category 1 ; H410<br><br>M-Factor(Acute) : 1<br>M-Factor(Chronic) : 1 | 1 - 5 |
| | UK registration number: UK-01-8323873876-5-xxxx | | |
| Bisphenol A novolac resin | CAS-No. : 28906-96-9 | Eye irritation, Category 2 ; H319<br>Skin sensitisation, Sub-category 1B ; H317 | 1 - 5 |
| 4,4'-[isopropylidenebis(4,1-phenyleneoxy)]dianiline | CAS-No. : 13080-86-9<br>EINECS-No. : 235-985-8 | Acute toxicity, Category 4 ; H302<br>Skin sensitisation, Category 1 ; H317<br>Long-term (chronic) aquatic hazard, Category 4 ; H413 | 1 - 5 |
| barium chromate | Index-No. : 056-002-00-7<br>CAS-No. : 10294-40-3<br>EINECS-No. : 233-660-5 | Acute toxicity, Category 3 ; H301<br>Acute toxicity, Category 2 ; H330<br>Acute toxicity, Category 3 ; H311<br>Respiratory sensitisation, Category 1 ; H334<br>Skin sensitisation, Category 1 ; H317<br>Germ cell mutagenicity, Category 1B ; H340<br>Carcinogenicity, Category 1A ; H350<br>Reproductive toxicity, Category 2 ; H361f<br>Specific target organ toxicity - repeated exposure, Category 1 ; H372 (Kidney, Respiratory Tract)<br>Short-term (acute) aquatic hazard, Category 1 ; H400<br>Long-term (chronic) aquatic hazard, Category 1 ; H410<br><br>M-Factor(Acute) : 1<br>M-Factor(Chronic) : 1 | 0.1 - 0.5 |

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**In case of inhalation**

- Quickly move the person away from the contaminated area. Make the affected person rest.
- Immediate medical attention is required.
- Show this sheet to the doctor.
- Be prepared to provide first aid or medical support if necessary.

**In case of skin contact**

- Wash off immediately with plenty of water for at least 15 minutes.
- Use appropriate protective equipment when treating a contaminated person.
- Always obtain medical attention.
- Show this sheet to the doctor.
- Be prepared to provide first aid or medical support if necessary.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Keep eye wide open while rinsing.
- Show this sheet to the doctor.
- Always obtain medical advice, even if there are no symptoms.
- Be prepared to provide first aid or medical support if necessary.

**In case of ingestion**

- Do NOT induce vomiting.
- Immediate medical attention is required.
- Show this sheet to the doctor.
- Do not give anything to drink.
- Be prepared to provide first aid or medical support if necessary.

### 4.2 Most important symptoms and effects, both acute and delayed

**Effects**

- Effects on health may appear after exposure.
- The effects will depend on target organs.
- May cause cancer.
- Chronic exposure is suspected of causing genetic effects on basis of animal data. Effects on human have not been proven.
- Chronic exposure is suspected of causing effects on fertility or on the unborn child on basis of animal data. Effects on human have not been proven.
- Chronic exposure may cause allergic dermatitis.
- Exposure may cause allergic rhinitis, conjunctivitis, asthma or shock.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
- Risk of respiratory disorder
- Chronic exposure may cause dermatitis.

**Symptoms**

- Symptoms will depend on the target organs.
- Inhalation may provoke the following symptoms:
- Cough
- Breathing difficulties
- Irritation
- Redness
- Swelling of tissue
- Ingestion may provoke the following symptoms:
- Nausea
- Diarrhoea
- Abdominal pain
- allergic rhinitis
- Severe allergic skin reactions, bronchiospasm and anaphylactic shock
- Itching
- Dermatitis
- Lachrymation

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

**Notes to physician**

- Get medical advice/ attention.
- Treat symptomatically.
- Contact a poison control center.
- Keep under medical follow up for at least 48 hours.
- Contact the occupational physician in case of exposure.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

- Water spray
- Foam
- Carbon dioxide (CO2)
- Multi-purpose powders

**Unsuitable extinguishing media**

- High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Under fire conditions:
- Will burn
- On combustion, toxic gases are released.

### 5.3 Advice for firefighters

**Special protective equipment for firefighters**

- In the event of fire, wear self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.
- For further information refer to section 8 "Exposure controls/personal protection".

**Specific fire fighting methods**

- Cool containers/tanks with water spray.
- Do not use a solid water stream as it may scatter and spread fire.

**Further information**

- Standard procedure for chemical fires.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Where exposure level is not known, wear approved, positive pressure, self-contained respirator.
- Where exposure level is known, wear approved respirator suitable for level of exposure.
- In addition to the protective clothing/equipment in Section 8 (Exposure Controls/Personal Protection), wear impermeable boots.

### 6.2 Environmental precautions

- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
- Contain the spilled material by bunding.
- Do not let product enter drains.
- Do not allow uncontrolled discharge of product into the environment.

### 6.3 Methods and materials for containment and cleaning up

- Stop leak if safe to do so.
- Keep in properly labelled containers.
- Keep in suitable, closed containers for disposal.
- Wash non-recoverable remainder with large amounts of water.
- Soak up with inert absorbent material and dispose of as hazardous waste.
- Decontaminate tools, equipment and personal protective equipment in a segregated area.
- Dispose of in accordance with local regulations.
- Never return spills in original containers for re-use.

### 6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Do not freeze.

- Do not release to water.
- Provide good ventilation of working area (local exhaust ventilation if necessary).

**Hygiene measures**

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Keep away from food and drink.

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

**Technical measures/Storage conditions**

- Do not freeze.

**Requirements for storage rooms and vessels**

**Recommended storage temperature:** 1.7 - 12.8 °C

### 7.3 Specific end use(s)

- Contact your supplier for additional information

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Components with workplace occupational exposure limits**

| Components | Value type | Value | Basis |
|---|---|---|---|
| strontium chromate | TWA | 0.01 mg/m3 | UK. EH40 WEL - Workplace Exposure Limits |
| | Expressed as :chromium | | |
| strontium chromate | TWA | 0.025 mg/m3 | UK. EH40 WEL - Workplace Exposure Limits |
| | Expressed as :chromium | | |
| barium chromate | TWA | 0.01 mg/m3 | UK. EH40 WEL - Workplace Exposure Limits |
| | Expressed as :chromium | | |

| | | | |
|---|---|---|---|
| barium chromate | TWA | 0.025 mg/m3 | UK. EH40 WEL - Workplace Exposure Limits |
| | Expressed as :chromium | | |

**Biological Exposure Indices**

| Components | Value type | Value | Basis |
|---|---|---|---|
| strontium chromate | BEI | 10 µmol/mol creatinine<br>chromium<br>Urine<br>After shift | UK. Biological monitoring guidance values |
| barium chromate | BEI | 10 µmol/mol creatinine<br>chromium<br>Urine<br>After shift | UK. Biological monitoring guidance values |

**8.2 Exposure controls**

**Control measures**

**Engineering measures**
- Ensure adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures**

**Respiratory protection**
- Self-contained breathing apparatus in confined spaces/insufficient oxygen/in case of large uncontrolled emissions/in all circumstances when the mask and cartridge do not give adequate protection.
- Use only respiratory protection that conforms to international/ national standards.
- Respirator with a vapour filter (EN 141)
- Respirator with a full face mask
- Use the indicated respiratory protection if the occupational exposure limit is exceeded.

**Hand protection**
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
- Impervious gloves

***Suitable material***
- Nitrile or fluorinated rubber gloves.

**Eye protection**
- Chemical resistant goggles must be worn.
- Tightly fitting safety goggles.

**Skin and body protection**
- Impervious clothing
- Full protective suit
- Change working clothes after each workshift.
- Contaminated work clothing should not be allowed out of the workplace.

**Hygiene measures**
- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Eye wash bottles or eye wash stations in compliance with applicable standards.

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Keep away from food and drink.

**Environmental exposure controls**

- Dispose of rinse water in accordance with local and national regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | liquid |
| **Form** | liquid |
| **Colour** | yellow |
| **Odour** | slight amine |
| **Odour Threshold** | No data available |
| **Melting point/freezing point** | Melting point/ range:<br>Not applicable |
| **Initial boiling point and boiling range** | Boiling point/boiling range: 100 °C<br>Water, The product itself has not been tested. |
| **Flammability (solid, gas)** | No data available |
| **Flammability (liquids)** | No data available |
| **Flammability/Explosive limit** | Lower flammability/explosion limit:<br>Type: Lower explosion limit<br>Not applicable<br><br>Upper flammability/explosion limit:<br>Type: Upper flammability limit<br>Not applicable |
| **Flash point** | > 93.3 °C Pensky-Martens closed cup |
| **Auto-ignition temperature** | No data available |
| **Decomposition temperature** | No data available |
| **pH** | No data available |
| **Viscosity** | No data available |
| **Solubility** | Water solubility:<br>dispersible |
| **Partition coefficient: n-octanol/water** | No data available |
| **Vapour pressure** | similar to water |
| **Density** | 1.05 g/cm3 |
| **Relative density** | No data available |
| **Relative vapor density** | similar to water |

| | |
|---|---|
| **Particle characteristics** | No data available |
| **Evaporation rate (Butylacetate = 1)** | similar to water, The product itself has not been tested. |

**9.2 Other information**

| | |
|---|---|
| **Oxidizing properties** | Not considered as oxidizing |
| **Self-ignition** | Not applicable |
| **Peroxides** | The substance or mixture is not classified as organic peroxide. |
| **Dust deflagration index (Kst)** | 179 m.bar/s<br>Method: Particle size <75 µm |
| **Minimum ignition energy** | Not applicable |
| **Molecular weight** | Mixture |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

- no data available

**10.2 Chemical stability**

- Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

**polymerisation**

- Hazardous polymerisation may occur.

**10.4 Conditions to avoid**

- None known.

**10.5 Incompatible materials**

- Amines
- Acids and bases
- Oxidizing agents

**10.6 Hazardous decomposition products**

- Ammonia
- Carbon oxides
- Nitrogen oxides (NOx)
- phenolic compounds
- Hydrogen chloride

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity**

| | |
|---|---|
| **Acute oral toxicity** | Not classified as hazardous for acute oral toxicity according to GHS.<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |

| | |
|---|---|
| **Acute inhalation toxicity** | This product is classified as acute toxicity, category 4<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |
| **Acute dermal toxicity** | Not classified as hazardous for acute dermal toxicity according to GHS.<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |
| **Acute toxicity (other routes of administration)** | Not applicable |
| **Skin corrosion/irritation** | Not classified as irritating to skin.<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |
| **Serious eye damage/eye irritation** | Not classified as irritating to eyes<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |

**Respiratory or skin sensitisation**

| | |
|---|---|
| strontium chromate | By analogy<br><br>The product is a skin sensitiser, sub-category 1B.<br>Method: according to a standardised method |
| 4,4'-[isopropylidenebis(4,1-phenyleneoxy)]dianiline | Direct Peptide Reactivity Assay (DPRA)<br>negative<br>Method: OECD Test Guideline 442C<br>Unpublished reports<br><br>KeratinoSens assay<br>positive<br>Method: OECD Test Guideline 442D<br>Unpublished reports<br><br>positive<br>The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc. |
| barium chromate | By analogy<br><br>Classified as a skin sensitizer category 1 according to GHS criteria<br>Published data<br><br>Probability or evidence of respiratory sensitization in humans<br>Published data |

**Mutagenicity**

**Genotoxicity in vitro**

| | |
|---|---|
| strontium chromate | By analogy |

| | |
|---|---|
| | Ames test<br>with and without metabolic activation<br><br>positive<br>Method: according to a standardised method<br>Published data<br><br>In vitro mammalian cell gene mutation test<br>Strain: Syrian Hamster Embryo (SHE) cells<br>without metabolic activation<br><br>positive<br>Method: Regulation (EC) No. 440/2008, Annex, B.21<br>Published data<br><br>sister chromatid exchange assay<br>Strain: Chinese hamster ovary cells<br>without metabolic activation<br><br>positive<br>Method: according to a standardised method<br>Published data |
| 4,4'-[isopropylidenebis(4,1-phenyleneoxy)]dianiline | Ames test<br>Strain: Salmonella typhimurium and Escherichia coli<br>with and without metabolic activation<br><br>negative<br>Method: OECD Test Guideline 471<br>Unpublished reports<br><br>Chromosome aberration test in vitro<br>Strain: Chinese hamster lung cells<br>with and without metabolic activation<br><br>negative<br>Method: OECD Test Guideline 473<br>Unpublished reports |
| barium chromate | By analogy<br><br>Positive results were obtained in some in vitro tests.<br>Published data |
| **Genotoxicity in vivo** | |
| strontium chromate | By analogy<br><br>In vivo tests showed mutagenic effects<br>Published data |
| barium chromate | By analogy<br><br>In vivo tests showed mutagenic effects<br>Published data |
| **Carcinogenicity** | |
| strontium chromate | Rat , male and female<br>Method: according to a standardised method<br>carcinogenic effects<br>IARC: Chromium (VI) compounds are carcinogenic in humans (Group 1)<br>Published data |

| | |
|---|---|
| barium chromate | carcinogenic effects<br>Published data |

**Toxicity for reproduction and development**

**Toxicity to reproduction/Fertility**

| | |
|---|---|
| barium chromate | By analogy<br><br>Mouse, male and female, Oral<br>Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Published data |

**Developmental Toxicity/Teratogenicity**

| | |
|---|---|
| barium chromate | By analogy<br><br>Mouse, male and female, Oral<br>Teratogenic effects have been observed, Published data |

**STOT**

| | |
|---|---|
| **STOT - single exposure** | The substance or mixture is not classified as specific target organ toxicant, single exposure.<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |
| **STOT - repeated exposure** | The substance or mixture is not considered to cause damage to organs through prolonged or repeated exposure.<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data.<br><br>The product itself has not been tested. |

**Experience with human exposure**

**Experience with human exposure : Inhalation**
No data is available on the product itself.

**Experience with human exposure : Skin contact**
No data is available on the product itself.

**Experience with human exposure : Eye contact**
No data is available on the product itself.

**Experience with human exposure : Ingestion**
No data is available on the product itself.

**CMR effects**

**Carcinogenicity**

| | |
|---|---|
| strontium chromate | Classified as carcinogen category 1A according to GHS criteria |
| barium chromate | Classified as carcinogen category 1A according to GHS criteria |

**Mutagenicity**

| | |
|---|---|
| strontium chromate | Classified as mutagen category 2 according to GHS criteria. |
| barium chromate | Classified as mutagen category 1B according to GHS criteria. |

**Teratogenicity**

| | |
|---|---|
| strontium chromate | Suspected of damaging the unborn child. |

**Reproductive toxicity**

| | |
|---|---|
| strontium chromate | Suspected of damaging fertility. |

| | |
|---|---|
| barium chromate | Some evidence of adverse effects on sexual function and fertility, based on animal experiments. |
| **Aspiration toxicity** | No aspiration toxicity classification, According to the available data on the components, According to the classification criteria for mixtures. |

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic Compartment**

| | |
|---|---|
| **Acute toxicity to fish** | The product itself has not been tested. |
| **Acute toxicity to daphnia and other aquatic invertebrates** | The product itself has not been tested. |
| **Toxicity to aquatic plants** | The product itself has not been tested. |
| **Toxicity to microorganisms** | The product itself has not been tested. |
| **Chronic toxicity to fish** | The product itself has not been tested. |
| **Chronic toxicity to daphnia and other aquatic invertebrates** | The product itself has not been tested. |

**Sediment compartment**

| | |
|---|---|
| **Toxicity to benthic organisms** | The product itself has not been tested. |

**Terrestrial Compartment**

| | |
|---|---|
| **Toxicity to soil dwelling organisms** | The product itself has not been tested. |
| **Toxicity to terrestrial plants** | The product itself has not been tested. |
| **Toxicity to above ground organisms** | The product itself has not been tested. |

**M-Factor**

| | |
|---|---|
| strontium chromate | Acute aquatic toxicity = 1<br>Chronic aquatic toxicity = 1<br>( according to the Globally Harmonized System (GHS) ) |
| barium chromate | Acute aquatic toxicity = 1<br>Chronic aquatic toxicity = 1 |

### 12.2 Persistence and degradability

**Abiotic degradation**

| | |
|---|---|
| **Stability in water** | Conclusion is not possible for a mixture as a whole. |
| **Photodegradation** | Conclusion is not possible for a mixture as a whole. |
| **Other Physico-Chemical reactions** | Conclusion is not possible for a mixture as a whole. |

**Physical- and photo-chemical elimination**

| | |
|---|---|
| **Physico-chemical removability** | Conclusion is not possible for a mixture as a whole. |

**Biodegradation**

| | |
|---|---|
| **Biodegradability** | As (bio)degradability is not relevant for mixtures, all the components of the mixture were assessed individually (rapid degradability assessment available |

below).

| | |
|---|---|
| **Ratio BOD/COD** | Conclusion is not possible for a mixture as a whole. |
| **Ratio BOD/ThOD** | Conclusion is not possible for a mixture as a whole. |
| **Biochemical Oxygen Demand (BOD)** | Conclusion is not possible for a mixture as a whole. |
| **Dissolved organic carbon (DOC)** | Conclusion is not possible for a mixture as a whole. |
| **Chemical Oxygen Demand (COD)** | Conclusion is not possible for a mixture as a whole. |
| **Adsorbed organic bound halogens (AOX)** | Conclusion is not possible for a mixture as a whole. |
| **Degradability assessment** | Conclusion is not possible due to incomplete or heterogeneous data on the components.<br>Unpublished reports<br>Published data |

**12.3 Bioaccumulative potential**

| | |
|---|---|
| **Partition coefficient: n-octanol/water** | Conclusion is not possible for a mixture as a whole. |
| **Bioconcentration factor (BCF)** | As bioaccumulation is not relevant for mixtures, all the components of the mixture were assessed individually.<br>At least one of the components is considered to be potentially bioaccumulable.<br>Unpublished reports<br>Published data |

**12.4 Mobility in soil**

| | |
|---|---|
| **Adsorption potential (Koc)** | Conclusion is not possible for a mixture as a whole. |
| **Known distribution to environmental compartments** | Conclusion is not possible due to incomplete or heterogeneous data on the components. |

**12.5 Results of PBT and vPvB assessment** Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.
Product does not contain substances which are very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
According to the available data on the components

**12.6 Other adverse effects**

**Ecotoxicity assessment**

| | |
|---|---|
| **Short-term (acute) aquatic hazard** | Toxic to aquatic life.<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |
| **Long-term (chronic) aquatic hazard** | Toxic to aquatic life with long lasting effects.<br>According to the available data on the components.<br>According to the classification criteria for mixtures.<br>Unpublished reports and/or published data. |

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Product Disposal**

- The Company encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, The Company recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.

## SECTION 14: Transport information

**ADN**

| | |
|---|---|
| **14.1 UN number** | UN 3082 |
| **14.2 Proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Strontium chromate) |
| **14.3 Transport hazard class** | 9 |
| Label(s): | 9 |
| **14.4 Packing group** | |
| Packing group | III |
| Classification Code | M6 |
| **14.5 Environmental hazards** | YES |
| **14.6 Special precautions for user** | |
| Hazard Identification Number: | 90 |

For personal protection, see section 8.

**ADR**

| | |
|---|---|
| **14.1 UN number** | UN 3082 |
| **14.2 Proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Strontium chromate) |
| **14.3 Transport hazard class** | 9 |
| Label(s): | 9 |
| **14.4 Packing group** | |
| Packing group | III |
| Classification Code | M6 |
| **14.5 Environmental hazards** | YES |
| **14.6 Special precautions for user** | |
| Hazard Identification Number: | 90 |
| Tunnel restriction code | (-) |

For personal protection, see section 8.

**RID**

| | |
|---|---|
| **14.1 UN number** | UN 3082 |

| | |
|---|---|
| **14.2 Proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Strontium chromate) |
| **14.3 Transport hazard class** | 9 |
| Label(s): | 9 |
| **14.4 Packing group** | |
| Packing group | III |
| Classification Code | M6 |
| **14.5 Environmental hazards** | YES |
| **14.6 Special precautions for user** | |
| Hazard Identification Number: | 90 |

For personal protection, see section 8.

**IMDG**

| | |
|---|---|
| **14.1 UN number** | UN 3082 |
| **14.2 Proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Strontium chromate) |
| IMDG Code segregation group | Not Relevant |
| **14.3 Transport hazard class** | 9 |
| Label(s): | 9 |
| **14.4 Packing group** | |
| Packing group | III |
| **14.5 Environmental hazards** | YES |
| **Marine pollutant** | |
| **14.6 Special precautions for user** | |
| EmS | F-A , S-F |

For personal protection, see section 8.

**14.7 Transport in bulk vessels according to IMO instruments**

No data available

**IATA**

| | |
|---|---|
| **14.1 UN number** | UN 3082 |

| | |
|---|---|
| **14.2 Proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Strontium chromate) |
| **14.3 Transport hazard class** | 9 |
| Label(s): | 9 |
| **14.4 Packing group** | |
| Packing group | III |
| **14.5 Environmental hazards** | YES |
| **14.6 Special precautions for user** | |
| Packing instruction (cargo aircraft) | 964 |
| Max net qty/pkg | 450.00 L |
| Packing instruction (passenger aircraft) | 964 |
| Max net qty/pkg | 450.00 L |

For personal protection, see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

## SECTION 15: Regulatory information

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

**Notification status**

| Inventory Information | Status |
|---|---|
| United States TSCA Inventory | - All substances listed as active on the TSCA inventory |
| Canadian Domestic Substances List (DSL) | - Listed on Inventory |
| Australian Inventory of Industrial Chemicals (AIIC) | - One or more components not listed on inventory |
| Japan. CSCL - Inventory of Existing and New Chemical Substances | - Listed on Inventory |
| Korea. Korean Existing Chemicals Inventory (KECI) | - Listed on Inventory |
| China. Inventory of Existing Chemical Substances in China (IECSC) | - Listed on Inventory |
| Philippines Inventory of Chemicals and Chemical Substances (PICCS) | - One or more components not listed on inventory |
| Taiwan Chemical Substance Inventory (TCSI) | - Listed on Inventory |
| New Zealand. Inventory of Chemical Substances | - All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand. |
| EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH) | - When purchased from a Syensqo legal entity based in the EEA (""European" "Economic Area""), this product is compliant with the registration" provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, |

| | |
|---|---|
| | exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information. |

**15.2 Chemical safety assessment**

- no data available

## SECTION 16: Other information

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008**

| Classification | Justification |
|---|---|
| Acute toxicity - Category 4 | Calculation method |
| Skin sensitisation - Category 1 | Calculation method |
| Germ cell mutagenicity - Category 1B | Calculation method |
| Carcinogenicity - Category 1A | Calculation method |
| Long-term (chronic) aquatic hazard - Category 2 | Calculation method |

**Full text of H-Statements referred to under sections 2 and 3.**

- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H311: Toxic in contact with skin.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H330: Fatal if inhaled.
- H332: Harmful if inhaled.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335: May cause respiratory irritation.
- H340: May cause genetic defects.
- H341: Suspected of causing genetic defects.
- H350: May cause cancer.
- H361f: Suspected of damaging fertility.
- 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.
- H413: May cause long lasting harmful effects to aquatic life.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

- GB EH40 BAT: UK. Biological monitoring guidance values
- TWA: Long-term exposure limit (8-hour TWA reference period)
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

**Not all acronyms listed above are referenced in this SDS.**

**Further information**

- Distribute new edition to clients
- Update
- See section 2
- See section 3

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.