

## SAFETY DATA SHEET

SDS002 Version 4

Review Date: 01 Jul 2028

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

Product name : Caustic Pencil and Caustic Applicator

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

Identified uses : Caustic pencils or applicators consisting of plastic handles bearing small active tips of various forms of toughened silver nitrate for medicinal use in the treatment of warts, verrucae, granulation tissue, for cautery and as a medicinal caustic.

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

Manufacturer : Bray Healthcare Ltd

Address : 1-5 Regal Way  
Faringdon  
Oxfordshire  
SN7 7BX  
UNITED KINGDOM

Telephone : 44 (0) 1367 240736 (Normal Business Hours)

E-mail address : [info@bray-healthcare.com](mailto:info@bray-healthcare.com)

Website : <https://www.bray-healthcare.com/>

#### 1.4 Emergency telephone

Emergency Telephone: 44 (0) 1367 240736 (Normal Business Hours with the option to divert the emergency phone call during non-business hours to available personnel). Outside business hours seek medical advice via NHS 111 or local emergency services as appropriate.

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

The product is an article according to Article 3 of Regulation (EC) No. 1907/2006.

The product as supplied is an article containing a silver nitrate/potassium nitrate active tip. Hazard information presented in this SDS relates primarily to the active tip material and foreseeable accidental exposure scenarios.

The finished product is an article and is therefore not subject to classification as a substance or mixture under Regulation (EC) No. 1272/2008 (CLP).

However, the active caustic tip contains silver nitrate, which is classified as hazardous.

Hazard classification of the contained substance (silver nitrate):

Silver nitrate (75–95%) – article (pencil/applicator)

- Ox. Sol. 2 – H272: May intensify fire; oxidiser
- Skin Corr. 1B – H314: Causes severe skin burns and eye damage
- Eye Dam. 1 – H318: Causes serious eye damage
- Aquatic Acute 1 – H400 (M = 100): Very toxic to aquatic life
- Aquatic Chronic 1 – H410 (M = 1000): Very toxic to aquatic life with long lasting effects

These hazards relate to the substance contained in the caustic tip material and not to the finished article when used as intended.

## 2.2 Label elements

The finished article is not subject to classification and labelling requirements under Regulation (EC) No. 1272/2008 (CLP). Hazard information relating to the contained substances is provided for information only.

## 2.3 Other hazards

- The product contains silver nitrate, which may cause dark staining of the skin on contact due to formation of metallic silver.
- No substances in this article meet the criteria for **PBT or vPvB** according to Annex XIII of Regulation (EC) No. 1907/2006.
- The physical form of the product (solid caustic tip contained in a pencil/applicator) significantly reduces the likelihood of exposure under normal conditions of use.
- The article does not contain substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 and Commission Regulation (EU) 2018/605.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Article

Caustic pencils and caustic applicators are articles according to Article 3 of Regulation (EC) No 1907/2006 (REACH).

The product does not contain substances listed in Annex XIV (Authorisation List) and does not contain substances of very high concern (SVHC) on the Candidate List above the threshold of 0.1 % (w/w) according to Article 33 of REACH.

Articles are not subject to the Safety Data Sheet requirements of Article 31 of REACH. This document is provided voluntarily to communicate safety information relating to the substances contained in the active caustic tip.

The concentration ranges provided below refer to the composition of the caustic tip material, not the overall finished article. The active tip contains silver nitrate, but under normal or reasonably foreseeable conditions of use, the finished article does not present the hazards of the pure substance.

| Component Identifiers                                                                                                                                           | CLP Classification - Regulation (EC) No. 1272/2008                                                                                                            | Signal Word | Concentration in Article | Type |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|------|
| <b>Substance: Silver Nitrate Crystals</b>                                                                                                                       |                                                                                                                                                               |             |                          |      |
| CAS-No.: 7761-88-8<br>EC-No.: 231-853-9<br>Index-No.: 047-001-00-2<br>Concentration: Up to 100%<br>REACH No: 01-21195137XX-X3-0000<br>Concentration: Up to 100% | Ox. Sol. 2 - H272<br>Skin Corr. 1B - H314<br>Aquatic Acute 1 - H400 (M=100)<br>Aquatic Chronic 1 - H410 (M=1000)<br>*Acute Tox. 4 - H302<br>*Repr. 1B - H360D | Danger      | 40% - 95%                | [A]  |
| <b>Substance: Potassium Nitrate</b>                                                                                                                             |                                                                                                                                                               |             |                          |      |
| Formula: KNO3<br>CAS-No.: 7757-79-1<br>EC-No.: 231-818-8<br>REACH No:<br>01-2119488224-35-XXXX<br>Concentration: Up to 100%                                     | Ox. Sol. 3 - H272                                                                                                                                             | Warning     | 5% - 60%                 | N/A  |

Type: [A] Constituent [B] Impurity [C] Stabilising additive

*\* The hazard classifications listed above relate to the constituent substances contained within the active caustic tip material. Under normal and reasonably foreseeable conditions of use, exposure to these substances is limited due to their containment within the article, and the finished product does not present the same level of hazard as the isolated substances.*

*For the full text of the H statements mention in this section, see Section 16.*

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### **If inhaled**

Very unlikely route of exposure. If dust from broken or damaged tips is inhaled move the person into fresh air and if irritation persists seek medical attention.

#### **In case of skin contact**

Wash off with soap and plenty of water. If irritation persists seek further medical attention.

These measures are not required when the product is used on the treated area of skin as per the instruction stated in the PIL.

#### **In case of eye contact**

May cause mechanical irritation or damage as well as chemical damage. In case of eye contact flush eye thoroughly with plenty of water for at least 15 minutes while seeking immediate medical attention.

#### **If swallowed**

Not a likely route of exposure. If exposure occurs, however, seek immediate medical attention.

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

When used in accordance with the instructions for use, the product is intended to produce a local cauterising effect at the treatment site. Accidental exposure may cause irritation, burns or staining.

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

No data available.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water fog or spray, alcohol-resistant foam, dry chemical or carbon dioxide suitable for any other materials present that may be involved in a fire.

The active caustic tip contains silver nitrate, which is an oxidiser. In case the tip material is exposed due to damage or fire, treat the exposed substance as an oxidising solid.

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

None

### **5.3 Advice for firefighters**

Do not breathe decomposition products and fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

### **5.4 Further information**

No data available on specific firefighting measures for the intact article.

Standard precautions for oxidising solids should be followed if the tip material is released.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Use suitable personal protective equipment (refer to Section 8 for details). Avoid generating or inhaling dust from broken or damaged caustic tips. Ensure adequate ventilation.

### **6.2 Environmental precautions**

Do not let product enter drains or watercourses.

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

Place contaminated or expended materials in disposable containers and dispose of in a manner consistent with applicable regulations.

### **6.4 Reference to other sections**

For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Use in accordance with product instruction sheets. Do not remove caustic tips from pencils or applicators.

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

Store in a cool, dry place and protect from direct sunlight and moisture.

### 7.3 Specific end use(s)

No data available.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with occupational exposure limits

Silver nitrate: WEL (8-hour TWA) 0.01 mg/m<sup>3</sup> (as Ag). Exposure is not expected during normal use of the finished article.

### 8.2 Exposure controls

#### Appropriate engineering controls

Use in well-ventilated areas. Use mechanical ventilation in poorly ventilated areas.

#### Personal protective equipment

##### Eye/face Protection

Not generally necessary if used in accordance with product instructions. If eye contact is possible use equipment for eye protection tested and approved under appropriate standards such as EN 166.

##### Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with good practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425. Recommended glove types include Nitrile and Polythene gloves.

##### Body Protection

Specific protection not likely to be necessary under normal use and operating conditions in accordance with product instructions.

##### Respiratory Protection

Not likely to be necessary under normal use and operating conditions in accordance with product instructions.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance - Active Caustic tips

|                                                             |                                                                          |
|-------------------------------------------------------------|--------------------------------------------------------------------------|
| a) Physical state                                           | Solid                                                                    |
| b) Colour                                                   | white/off white but may turn grey or black on prolonged exposure to air. |
| c) Odour                                                    | None                                                                     |
| Odour Threshold                                             | Not applicable.                                                          |
| d) Melting point/freezing point                             | Typically about 150 - 200°C                                              |
| e) Boiling point or initial boiling point and boiling range | No data available. Decomposes at high temperatures                       |
| f) Flammability                                             | Non flammable                                                            |
| g) Lower and upper explosion limit                          | Non-explosive                                                            |
| h) Flash point                                              | Not applicable                                                           |
| i) Auto-ignition temperature                                | Not applicable                                                           |
| j) Decomposition temperature                                | No data available                                                        |
| k) pH                                                       | Solutions will be slightly acidic.                                       |
| l) Kinematic viscosity                                      | Not applicable                                                           |

|                                                         |                                                                                                          |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| m) Solubility                                           | Very soluble in water. Soluble in ethanol                                                                |
| n) Partition coefficient<br>n-octanol/water (log value) | No data available, expected to be very low.                                                              |
| o) Vapour pressure                                      | No data available                                                                                        |
| p) Density and/or relative density                      | No data available                                                                                        |
| q) Relative vapour density                              | Not applicable to solids.                                                                                |
| r) Particle characteristics                             | Not applicable to the finished article. The active tip material is supplied as a solid bonded component. |

## 9.2 Other safety information

|                      |                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------|
| Oxidizing properties | Mild oxidising properties, not classified as an oxidising agent in accordance with EC/1272/2008 (as amended) |
|----------------------|--------------------------------------------------------------------------------------------------------------|

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Reacts with acetylene and ammonia solutions to form unstable explosive compounds.

### 10.2 Chemical stability

Expected to be stable at normal temperatures and under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

None expected under normal conditions.

### 10.4 Conditions to avoid

Light, moisture and high temperatures and high humidity.

### 10.5 Incompatible materials

Acetylene, acrylonitrile, ethanol and ammonia solutions. Avoid contact with combustible materials, reducing agents, phosphorus, sulphur, charcoal powder and magnesium.

### 10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

## SECTION 11: TOXICOLOGICAL INFORMATION (caustic tip material only)

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 (oral) > 2000mg/kg (rat)

LD50 (dermal) > 2000mg/kg (rabbit)

Ingestion can cause chemical burns to mouth, throat and stomach which in severe cases could be fatal if unattended

#### Skin corrosion/irritation

May cause skin irritation, burns or tissue damage following uncontrolled exposure to the active tip material.

#### Serious eye damage/eye irritation

Primary eye irritant, may cause severe eye damage.

#### Respiratory or skin sensitisation

No known sensitisation potential.

#### Germ cell mutagenicity

No known mutagenic potential.

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

No known toxic to reproduction potential.

**Specific target organ toxicity - single exposure**

Not applicable

**Specific target organ toxicity - repeated exposure**

Not applicable

**Aspiration hazard**

Not applicable

**Potential health effects - Inhalation, ingestion, skin and eyes**

Chronic application of large quantities of silver nitrate products to mucous membranes or open wounds may lead to argyria, and accumulation of silver metal and compounds in the connective tissues, resulting in a local or general greyish or blackish-blue appearance.

**Signs and Symptoms of Exposure**

None when used in accordance with instructions. Symptoms of silver nitrate poisoning include pain in the mouth, throat or stomach, sialorrhoea, diarrhoea, nausea, vomiting, coma or convulsions.

**Additional Information**

Not available

**SECTION 12: ECOLOGICAL INFORMATION (Caustic tip material only)****12.1 Toxicity**

Silver Nitrate - Very toxic to aquatic life.

**12.2 Persistence and degradability**

Persistent in the environment.

**12.3 Bioaccumulative potential**

Unlikely to possess significant bio accumulative potential.

**12.4 Mobility in soil**

Solutions will be highly mobile in soil.

**12.5 Results of PBT and vPvB assessment**

The contained substances are not considered to meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

**12.6 Endocrine disrupting properties**

Based on available data, the contained substances are not identified as having endocrine disrupting properties.

**12.7 Other adverse effects**

No data available

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Material is classified as hazardous waste under the Hazardous Waste Regulations 2005 (as amended) and used contaminated articles may be classified as biological waste. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as an unused product.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

**14.2 UN proper shipping name**

ADR/RID:

IMDG:

IATA:

Not dangerous goods

Not dangerous goods

Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4 Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

## Additional Information

**ADR/RID** - The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg

**IMDG** - The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** - The environmentally hazardous substance mark may appear if required by other transportation regulations.

### 14.6 Special precautions for user

Transport classification applies to the finished article as supplied and not to the isolated active tip materials.

## SECTION 15: Regulatory information

This Safety Data Sheet is provided voluntarily for an article and is exempt from the requirements of Article 31 of Regulation (EC) No. 1907/2006 (REACH). The format follows the principles of REACH Annex II as amended by Commission Regulation (EU) 2020/878, as applicable in the United Kingdom.

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

- Health & Safety at Work etc. Act 1974
- Control of Substances Hazardous to Health Regulations 2002 (as amended)
- Chemicals (Hazard Information and Packaging for Supply) Regulations 2009
- Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)
- EH40/2005 Workplace Exposure Limits (as amended)
- Environmental Protection Act 1990
- Hazardous Waste Regulations 2005 (as amended)

### 15.1 Chemical Safety Assessment

No data available

## 16 OTHER INFORMATION

| Abbreviations and acronyms: |                                                                                    |      |                                          |
|-----------------------------|------------------------------------------------------------------------------------|------|------------------------------------------|
| ATE                         | Acute Toxicity Estimate                                                            | PBT  | Persistent, Bioaccumulative and Toxic    |
| CLP                         | Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] | PNEC | Predicted No Effect Concentration        |
| DMEL                        | Derived Minimal Effect Level                                                       | RRN  | REACH Registration Number                |
| EUH statement               | CLP-specific Hazard statement                                                      | vPvB | Very Persistent and Very Bioaccumulative |

| Text of H-code(s) mentioned in Section 3 |                                         |      |                                                      |
|------------------------------------------|-----------------------------------------|------|------------------------------------------------------|
| H272                                     | May intensify fire, oxidiser            | H318 | Causes serious eye damage                            |
| H314                                     | Causes severe skin burns and eye damage | H410 | Very toxic to aquatic life with long lasting effects |
| H400                                     | Very toxic to aquatic life              | H302 | Harmful if swallowed                                 |
| H360D                                    | May damage the unborn child             |      |                                                      |

### Recommended restrictions on use

Use in accordance with the manufacturer's technical instructions.

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Bray Healthcare Ltd. (Bray). However, Bray makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.

End of safety data sheet