

SAFETY DATA SHEET

SDS002 Version 1
Revision Date 23 Mar 2028

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

1.1 Product identifiers

Product name : Silver Nitrate Pencil - 95% - Animal Care - Quick-Stop by Bray
Silver Nitrate Applicators - 75% - Animal Care - Quick-Stop by Bray

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

Identified uses : Product intended for animal use only – not for humans. Animal care product.

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
Website : [Home | Bray Healthcare](#)

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).

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 finished product is not classified 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).

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.

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
Substance: Silver Nitrate Crystals				
CAS-No.: 7761-88-8 EC-No.: 231-853-9 Index-No.: 047-001-00-2 Concentration: Up to 100% REACH No: 01-21195137XX-X3-0000 Concentration: Up to 100%	Ox. Sol. 2 - H272 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 (M=100) Aquatic Chronic 1 - H410 (M=1000) *Acute Tox. 4 - H302 *Repr. 1B - H360D	Danger	75% - 95%	[A]
Substance: Potassium Nitrate				
Formula: KNO ₃ CAS-No.: 7757-79-1 EC-No.: 231-818-8 REACH No: 01-2119488224-35-XXXX Concentration: Up to 100%	Ox. Sol. 3 – H272	Warning	5% - 25%	N/A

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

* These hazard statements refer only to the contained substance. When used as intended, the finished article poses minimal risk to humans or animals.

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

The product when handled and used in its intended form poses minimal risk of harm to human health.

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 other 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 breathing vapours or mists. 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 cool dry place and protect from direct sunlight.

7.3 Specific end use(s)

No data available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits

None

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 EU Directive 89/686/EEC and the standard EN 374 derived from it. 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

- | | |
|--|--|
| a) Appearance (Active Caustic tips) | |
| Physical state | Solid |
| Colour | white/off white but may turn grey or black on prolonged exposure to air. |
| b) Odour | None |
| c) Odour Threshold | Not applicable |
| d) pH | Solutions will be slightly acidic. |
| e) Melting point/freezing point | Typically about 150 - 200°C |
| f) Initial boiling point and boiling range | No data available. Decomposes at high temperatures. |
| g) Flash point | Not applicable |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | Non flammable |

j)	Upper/lower flammability or explosive limits	Non-explosive
k)	Vapour pressure	No data available
l)	Vapour density	No data available, will be very low.
m)	Relative density	No data available
n)	Water solubility	Very soluble in water.
o)	Partition coefficient: (n- octanol/water)	No data available, expected to be very low.
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	Not applicable
s)	Explosive properties	None
t)	Oxidizing properties	Mild oxidising properties, not classified as an oxidising agent in accordance with EC/1272/2008 (as amended)

9.2 Other safety information

No data available

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.

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

Primary eye irritant, may cause severe eye damage

Serious eye damage/eye irritation

Primary skin irritant. Uncontrolled exposure in contradiction to product instructions may cause tissue damage, skin burns or ulcerations.

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

Not expected to meet PBT or vPvB criteria.

12.6 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: Not dangerous goods	IMDG: Not dangerous goods	IATA: 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

No data available

SECTION 15: Regulatory information

This safety datasheet is exempt from the requirements of Regulation (EC) No. 1907/2006 but follows the principles within Annex II of these regulations as amended by Commission Regulation (EU) 2020/878 - United Kingdom (UK)

15.1 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)

15.2 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 Bioaccumulativ

Text of H-code(s) and R-phrase(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		

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.