

SAFETY DATA SHEET

According to Regulation EC No. 1907/2006

Section 1. Identification of the substance/mixture and of the company/undertaking

| | |
|---|--|
| 1.1 Product Identifier | Battles Strong Iodine 7% |
| Other Identifier | |
| 1.2. Relevant identified uses of the substance or mixture and uses advised against | |
| Product Use | Topical preparation for farm livestock |
| 1.3. Details of the supplier of the safety data sheet | |
| Company | Battle, Hayward & Bower Ltd., Crofton Drive, Lincoln. LN3 4NP |
| Telephone | 01522 541241 |
| Email address | phillip@battles.co.uk |
| 1.4. Emergency telephone number | |
| Telephone | 01522 541241 |

Section 2. Hazards identification

2.1

Classification under Regulation (EC) No. 1272/2008

Category 2 eye irritant

Category 3 STOT SE

Category 2 Flammable

Classification under Directive 1999/45/EC

F; R11

2.2 Label elements

Classification under Regulation (EC) No. 1272/2008

Pictogram



| | |
|-------------------|--|
| Signal word | Danger |
| Hazard statements | Highly flammable liquid and vapour Causes serious eye irritation May cause drowsiness or dizziness |

| | |
|--------------------------|---|
| Precautionary statements | Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Wash hands thoroughly after handling. Wear protective eye protection. Avoid breathing vapours/spray. Use only outdoors or in a well-ventilated area. |
|--------------------------|---|

IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.
 In case of fire: Use water for extinction.
 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses if present and easy to do and continue rinsing.
 If eye irritation persists: get medical advice
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a POISON CENTER or doctor if you feel unwell.

Store in a well ventilated place. Keep container tightly closed.
 Store locked up.

Dispose of empty container through local recycling facilities

2.3 Other hazards

Section 3: Composition / Information on ingredients

3.1 Substances

3.2 Mixtures

| Chemical name | Registration number(s) | Classification Regulation (EC) No. 1272/2008 | Concentration |
|------------------|--|---|---------------|
| Iodine | 7553-56-2 053-001-00-3 231-442-4 | Acute Tox 4; H302, H312, H332. Skin Irrit 2; H319. STOT SE3; H335 STOT RE1; H372. Aquatic Tox 1; H400 | 5-10% |
| Isopropanol | 67-63-0 603-117-00-0 200-661-7 | Flam. Liq. 2 - H225 Eye Irrit. 2 - H319; STOT SE 3 - H336 | 60-100.0% |
| Potassium Iodide | 7681-11-0 2131-659-4 | Skin Irrit 2; H315 Eye Irrit 2; H319 STOT SE3; H335 | 3-7% |

Section 4: First Aid Measures

4.1 Description of first aid measures

| | |
|-------------------------|---|
| General advice | Consult a physician |
| If in eyes | Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. |
| If inhaled | Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| In case of skin contact | Remove contaminated clothing. Wash with soap and water |
| If swallowed | Do NOT induce vomiting Never give anything by mouth to an unconscious person Obtain medical attention |

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

CNS depression, nausea, headache, vomiting, narcosis, drowsiness, eye and skin irritation,

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

No data available

Section 5: Fire fighting Measures

5.1 Extinguishing media

Suitable extinguishing media Water, foam, powder or carbon dioxide

Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

5.3. Advice for fire fighters

In the event of a fire, wear self contained breathing apparatus

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment

Avoid breathing vapour

Ensure adequate ventilation.

6.2. Environmental precautions

Prevent product from entering drains

6.3. Methods and material for containment and cleaning up

Contain spillage, use absorbent material to soak up product and dispose of in accordance with local regulations.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Wash hands thoroughly after handling.

Wear protective eye protection.

Avoid breathing vapours/spray.

Use only outdoors or in a well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Store in a well ventilated place. Keep container tightly closed.

Store locked up.

7.3. Specific end use(s)

Section 8: Exposure controls / personal protection

8.1. Control parameters

Components with workplace control parameters

| Component | Cas – No. | Value | Control parameters | Basis |
|--------------|-----------|-------|----------------------------------|---|
| Iso propanol | 67-63-0 | STEL | 500ppm 1250 mg/m ³ | UK EH40 WEL Workplace Exposure Limits |
| | | TWA | 400ppm | UK EH40 WEL |

| | | | | |
|--------|-----------|------|---------------------------------|--|
| | | | 999 mg/m ³ | Workplace Exposure Limits |
| Iodine | 7553-56-2 | STEL | 0.1ppm 1.1 mg/m ³ | UK EH40 WEL Workplace Exposure Limits |

8.2. Exposure controls

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Keep container tightly closed.
 Wash hands thoroughly after handling.
 Wear protective eye protection.
 Avoid breathing vapours/spray.
 Use only outdoors or in a well-ventilated area.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Appearance | Brown almost Black liquid. |
| Odour | Alcoholic with Iodine. |
| pH | N/A |
| Melting point / freezing point | N/A |
| Initial boiling point and boiling range | 80°C |
| Flash point | 12°C |
| Evaporation rate | 3 |
| Flammability (solid, gas) | No data available |
| Upper / lower flammability or explosive limits | UEL 12.7% LEL 2% |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | 0.93 |
| Solubility(ies) | Partially miscible with water, miscible with alcohol. |
| Partition coefficient: n-octanol / water | No data available |
| Auto ignition temperature | 425°C |
| Decomposition temperature | No data available |
| Viscosity | Mobile liquid |
| Explosive properties | No data available |
| Oxidising properties | No data available |

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Iodine in its pure form can react with metals. Potassium iodide in its pure form reacts with strong acids and oxidising substances.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Heat, flames and sparks

10.5. Incompatible materials

Oxidising agents, acid anhydrides, aluminium, halogenated compounds, acids, strong reducing agents, phosphorus and ammonia solutions.

10.6. Hazardous decomposition products

Toxic gases of carbon monoxide, carbon dioxide

Section 11: Toxicological information

Acute Toxicity > 2000mg/Kg

Section 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

Partially miscible with water

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Section 13: Disposal considerations

Dispose of waste and residues in accordance with local authority requirements.

Section 14: Transport information

| | |
|---|-------------|
| 14.1. UN number | 1219 |
| 14.2. UN proper shipping name | Isopropanol |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | II |
| 14.5. Environmental hazards | No |
| 14.6. Special precautions for user | |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | |

Section 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

Section 16: Other information

Hazard statements in full

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness