



BioGuard

Safety Data Sheet Power Sticks

Biolab U.K. Limited
Unit 4 Andoversford Industrial Estate,
Cheltenham, Glos. GL54 4LB
Tel +44 (0) 1242 820969 Fax: +44(0) 1242 820180

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1 IDENTIFICATION OF CHEMICAL

Product Name: Power Sticks
Chemical name: Trichloroisocyanuric acid (TCCA)
Other names: Trichloro -1,3,5-triazinetriene, Trichloro-s-triazinetriene.

2 COMPOSITION

Ingredients:	Wt%	CAS No.	EINECS No	EEC No.	Phrases
Trichloroisocyanuric acid	<73	87-90-1	613-031-00-5	201-782-8	R8,22,31, 36/37, 50/53 S1/2,8,26,41, 60/61

3 HAZARD IDENTIFICATION

Harmful: Harmful if swallowed. Irritating to eye, skin and respiratory system.

4 FIRST AID MEASURES

Skin Contact: Wash with soap and cold water for a minimum of 15 minutes. If skin irritation persists, seek medical attention.

Eye Contact: Flush eyes with cold flowing water for at least 20 minutes. Seek medical attention immediately.

Ingestion: Drink large quantities of water. **DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.** Seek medical attention

Inhalation: Remove person to fresh air, rest and keep warm. In severe cases seek medical attention.

Notes to Doctor: Probable mucosal damage may contraindicate the use of gastric lavage.

Note: When seeking medical attention, always show the product label.

5 FIRE FIGHTING MEASURES

General Hazard: This product should not be exposed to external heat sources. Excessive heat may cause self-sustaining decomposition with the potential evolution of heat and toxic gases. In addition, when in contact with another combustible material, this product will increase the burning rate of the combustible material. When ignited, this material will burn with the evolution of noxious chlorine gases.

Extinguishing Media: **DO NOT** attempt to extinguish the fire without a self-contained breathing apparatus (SCBA). **DO NOT** let the fire burn. Flood with copious amounts of water. **DO NOT** use ABC or other dry chemical extinguishers since there is a potential for a violent reaction.

Decomposition Products: If allowed to reach temperatures resulting in decomposition and/or combustion, this product will liberate noxious chlorine gases. In the event of a decomposition and/or fire, extinguished material should be isolated. Any spilled material from burned or damaged containers should be assumed contaminated. Neutralise contaminated material to a non-oxidizing state for safe handling and disposal. To minimise unforeseen pressure build up, do not attempt to re-close (seal) damaged containers or product.

Fire Fighting Procedures: Firefighters should wear full protective clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

Unusual fire and explosion hazard: Nitrogen trichloride can be generated slowly by the reaction of small quantities of water with a high concentration of this product. Nitrogen trichloride can present an explosion hazard.

Immediately after a fire has been extinguished, check for wet, damp material. Any spilled material from burned or broken containers should be assumed contaminated. Neutralise to a non-oxidizing material for safe disposal. **DO NOT** attempt to re-close broken containers, even for movement to the disposal area. They should be left open to disperse any nitrogen trichloride that may form.

Material which appears undamaged, except for being damp on the outside, should be opened and inspected immediately. If the contents are damaged or the material is damp, the material should be chemically treated if allowable, to a non-oxidising material for safe disposal.

Bulging containers require extreme care.

6 ACCIDENTAL RELEASE MEASURES

Use appropriate personal protective equipment as detailed in section 8.

Spillages and Leaks:

Mix with sand, transfer carefully to container and arrange for removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages. If material has entered surface drains, it may be necessary to inform local authorities.

7 HANDLING AND STORAGE

Handling: Contains an oxidising material. **DO NOT MIX WITH OTHER CHEMICALS.** The preparation of concentrated solutions or slurried is not recommended. Avoid contact with water on concentrated material in the container. Also avoid contact with easily oxidisable organic material; ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite; alkalis. Use clean dry utensils. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well-ventilated area.

Storage: Keep this product in original, closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. **DO NOT** contaminate water, food or feed by storage or disposal or cleaning of equipment. **DO NOT** store above 52 °C

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:	8hr TWA		15min STEL		Authority
	ppm	mg/m ³	ppm	mg/m ³	
Trichloroisocyanuric acid.					Not assigned

General: General room ventilation plus local exhaust should be used to maintain exposure below TLV. Eye wash and emergency shower facilities recommended. Remove and wash contaminated clothing before reuse.

PPE

Respiratory: Use respiratory protection for general dust inhalation protection.

Skin: Wear rubber gloves when handling this product. Avoid contact with skin.

Eyes: Wear goggles or safety glasses with side shields when handling this product

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Odour and appearance:	Blue, stick with slight chlorine odour.
pH:	3 – 3.5 (1% solution @ 25 °C)
Odour Threshold:	No data
Coefficient of Water/Oil Distribution:	No data
Melting point:	225 °C

10 STABILITY AND REACTIVITY

Conditions to avoid: High temperature. Poor ventilation. Contamination. Moisture/high humidity.

Stability: This product is stable under normal conditions.

Polymerisation: Hazardous polymerisation will not occur under normal conditions.

Decomposition product: Chlorine containing gases can be produced.

Incompatible materials: Avoid contact with water on concentrated material in the container. Avoid contact with easily oxidisable material; ammonia, urea, or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; other swimming pool/spa chemicals in their concentrated form.

11 TOXICOLOGICAL INFORMATION

Oral LD50 406 mg/kg (rat)
Dermal LD50 7600 mg.kg (rabbit)
This product is an eye and skin irritant.
This product is not listed as a carcinogen

12 ECOLOGICAL INFORMATION

This product is toxic to fish and aquatic organisms. **DO NOT** discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans or their waters unless in accordance with the applicable governmental requirements. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact the appropriate authority.

13 DISPOSAL CONSIDERATIONS

Disposal Method: **DO NOT** put product, spilled product or filled or partially filled containers into the waste or waste compactor. Contact with incompatible materials could cause a reaction or fire. Disposal of unused, uncontaminated product is regulated according to local and national disposal legislation.

Empty Containers: **DO NOT** re-use container. Rinse thoroughly before discarding.

14 TRANSPORT INFORMATION

UN No: 3077
Primary Hazard: Environmentally Hazardous
Packing Group: III
Hazard ID No: 90
Class: 9
EAC: 2X

15 REGULATORY INFORMATION

Product name: Power Sticks
Hazard symbol: Harmful
Risk Phrases: R22 Harmful if swallowed
R31 Contact with acids liberates toxic gas.
R36/37 Irritating to eyes and respiratory system.

Safety Phrases: S1/2 Keep locked up and out of reach of children
S8 Keep container dry
S26 In case of contact with eyes, rinse immediately with water and seek medical attention.
S41 In case of fire and/or explosion do not breathe fumes.
Warning! Do not use with other products. May release dangerous gases (Chlorine).

16 OTHER INFORMATION

Recommended uses and restrictions: No further information

Further information sources: HSE Guidance note CS17

Sources of key data used to compile Safety Data Sheet.

Approved supply list. Approved carriage list, EH40, ACIGH tables.

The data in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1997, as amended, for the purpose of protecting the health and safety of industrial users who are deemed capable of understanding and acting on the information provided. Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.

This data sheet does not constitute a users assessment of the workplace risk as required by the Health and Safety at Work Act, COSHH, Management of Health and Safety at Work or other health and safety legislation.
