

MATERIAL SAFETY DATA SHEET

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Issue Date:

1- Chemical Product Information and Company Identification.

Product Name: : Perchloric Acid in Dioxane VS, 0.10 N, according to USP.
Synonym: :NA.
Product code: : BS13084.
CAS Number: : NA.
Company Name: : Briti Scientific.
Company Address: : Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055.
Telangana, India.

Section 2- Composition / Information on Ingredients.

Mixtures · Description: Mixture: consisting of the following components.

CAS: 123-91-1 1,4-dioxane
CAS: 7601-90-3 perchloric acid

Section 3- Hazards Identification.

Classification of the substance or mixture ·

Classification according to Regulation (EC) No 1272/2008

H225 Highly flammable liquid and vapour

H272 May intensify fire; oxidiser.

H350 May cause cancer

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Label elements

Labelling according to Regulation (EC) No 1272/2008

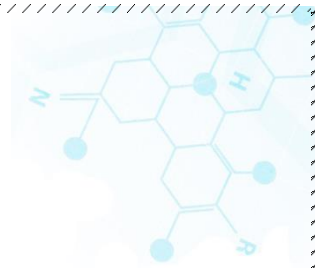
The product is classified and labelled according to the CLP regulation.

Hazard pictograms



USA: #1004, Boston, Massachusetts, 02116, United States. India: Jeedimetla, Hyderabad-500 055, Telangana.

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Signal word Danger

· Hazard-determining components of labelling:

1,4-dioxane

· **Hazard statements**

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H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

H335 May cause respiratory irritation.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

Section 4- First Aid Measures.

Description of first aid measures ·

After inhalation: In case of unconsciousness place patient stably in side position for transportation. ·

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

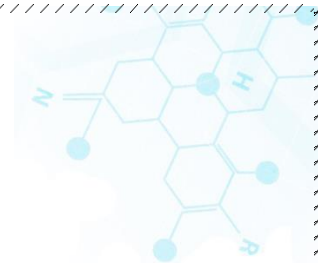
If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.





Section 5- Fire Fighting Measures.

Extinguishing media

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters Protective equipment: No special measures required.

Section 6- Accidental Release Measures.

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Prevent seepage into sewage system, workpits and cellars. Dilute with plenty of water.

Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7- Handling and Storage.

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

Storage: Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

Section 8- Exposure Control/Personal Protection.

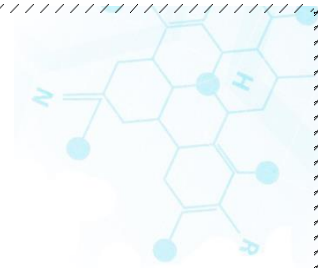
Exposure controls

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.





Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Tightly sealed goggles

Section 9- Physical and Chemical Properties.

Appearance: Colorless liquid.

Flammability: Contact with combustible material may cause fire. Highly flammable.

Section 10- Stability and Reactivity.

Reactivity: No further relevant information available.

Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

Section 11- Toxicological Information.

Information on hazard classes as defined in Regulation (EC) No 1272/2008 ·

Acute toxicity Based on available data, the classification criteria are not met.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

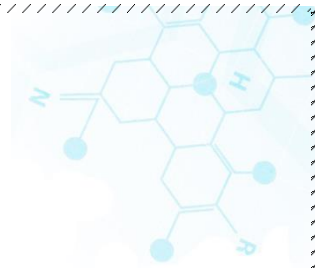
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity May cause cancer.

Reproductive toxicity Based on available data, the classification criteria are not met. ·





STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Information on other hazards

Endocrine disrupting properties None of the ingredients is listed.

Section 12- Ecological Information.

Toxicity · Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available. ·

Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

Other adverse effects

Additional ecological information:

General notes: Not hazardous for water.

Section 13- Disposal Considerations.

Waste treatment methods · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

Section 14- Transport Information.

UN number or ID number · ADR, IMDG, IATA UN1993

UN proper shipping name · ADR 1993 FLAMMABLE LIQUID, N.O.S. (DIOXANE)

· IMDG, IATA FLAMMABLE LIQUID, N.O.S. (DIOXANE)

Transport hazard class(es) · ADR, IMDG, IATA

Class 3 Flammable liquids.

Label 3

14.4 Packing group ADR, IMDG, IATA II

Environmental hazards: · Marine pollutant: No

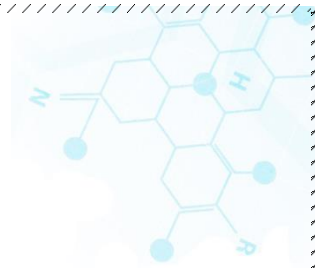
Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code): 33

· EMS Number: F-E,S-E

· Stowage Category B





Maritime transport in bulk according to IMO instruments Not applicable.

Transport/Additional information: · ADR · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category 2 · Tunnel restriction code D/E

IMDG · Limited quantities (LQ) 1L · Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Section 15- Regulatory Information.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and

electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and

third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

123-91-1 1,4-dioxane

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

