



Revision nr.1 Dated 11/18/2024 First compilation Printed on 11/18/2024 Page n. 1/9

Safety Data Sheet

According to Canadian HPR - WHMIS 2015

| 1. Product identifier | | | |
|---|---------------------|---|--------------------------------|
| Code: Product name | BRIOTOP BRIOTOP | | |
| .2. Relevant identified uses of the substance or mix | ture and uses advis | ed against | |
| Intended use | UNIVERSAL SI | JRFACE CLEANER | |
| Identified Uses | Industrial | Professional | Consumer |
| CLEANING AND WASHING | \checkmark | \checkmark | - |
| 1.3. Details of the supplier of the safety data sheet | | | |
| Name | TENAX SPA | | |
| Full address | Via I Maggio, 2 | 26 | |
| District and Country | 37020 V | olargne | (VR) |
| | Tel. + | aly 39 045 6887593 39 045 6862456 | |
| e-mail address of the competent person | I dA . | 00 040 0002400 | |
| responsible for the Safety Data Sheet | msds@tenax.it | : | |
| Supplier: | | 31173 - Fax 001 7045833166 | te 400, 28273 Charlotte NC, US |
| 1.4. Emergency telephone number | | | |
| For urgent inquiries refer to | 24hrs: | | |
| | Manitoba Poise | on Centre 1-855-7POISON (1 | 1-855-776-4766) |
| | - | oison Information Centre (I | DPIC) |
| | | (toll free in BC) | ide of PC) |
| | (604) 682-5050 | (Greater Vancouver or outs | ide of BC) |
| | Centre antipois | son du Québec 1-800-463-50 | 060 |
| | IWK Regional I | Poison Centre | |
| | - | (within NS and PEI only) | |
| | | (Halifax or outside NS, PEI) | |
| | | ug Information Services (PA | |
| | | (toll free in Alberta, Northw | |
| | | t (toll free in Saskatchewan) (in Calgary, outside of Albe | |
| | | | , - ····, |
| | Untario Poisor | Centre 1-800-268-9017 | |

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in Canada's Hazardous Products Regulations (HPR) (WHMIS 2015). The product thus requires a safety datasheet.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement





2. Hazards identification ... / >>

| Z. Hazarus identification / | ~~ | | | | |
|-----------------------------|--|--|--|--|--|
| Flammable liquid, category | [,] 4 | Combustible liquid. | | | |
| Hazard pictograms: | | | | | |
| Signal words: | Warning | | | | |
| | | | | | |
| Hazard statements: | | | | | |
| H227 | Combustible liquid. | | | | |
| | Companya ngana | | | | |
| Precautionary statements: | | | | | |
| Prevention: | | | | | |
| P210 | Keep away from heat. hot | surfaces, sparks, open flames and other ignition sources. No smoking. | | | |
| P280 | | ve protection / face protection. | | | |
| Response: | | | | | |
| P370+P378 | In case of fire: use CO2, s | and, powder to extinguish. | | | |
| Storage: | | | | | |
| P403+P235 | Store in a well-ventilated p | place. Keep cool. | | | |
| Disposal: | · | | | | |
| P501 | Dispose of contents / container according to applicable law. | | | | |
| | | | | | |
| 2.2. Other hazards | | | | | |
| Information not available | | | | | |
| 3. Composition/informati | ion on ingredients | | | | |
| 5. Composition/informati | ion on ingredients | | | | |
| 3.2. Mixtures | | | | | |
| Contains: | | | | | |
| Containe. | | | | | |
| Identification | x = Conc. % (w/w) | Classification: | | | |
| | | | | | |
| PROPAN-2-OL | | | | | |
| ISOPROPYL ALCOHOL | | | | | |
| ISOPROPANOL | | | | | |
| CAS 67-63-0 | $4 \le x < 4.5$ | Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H336 | | | |
| | | | | | |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Wash immediately and thoroughly with running water. Get medical advice if you feel symptoms.

SKIN: Wash with plenty of water. Get medical advice if you feel symptoms. INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice.

INHALATION: Remove to open air. Get medical advice if you feel symptoms.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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4. First-aid measures ... / >>

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

Combustion products: COx.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point

13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the



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7. Handling and storage ... / >>

risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

| EU | OEL EU TLV-ACGIH | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. ACGIH 2023 |
|----|---------------------|--|
| | | |

| 130-BUTANOL | | | | | | | |
|-----------------------|---------|--------|-----|------------|-----|------------------------|--|
| Threshold Limit Value | | | | | | | |
| Туре | Country | TWA/8h | | STEL/15min | | Remarks / Observations | |
| | | mg/m3 | ppm | mg/m3 | ppm | | |
| TLV-ACGIH | - | 152 | 50 | | | | |
| OSHA | USA | 300 | 100 | | | | |
| | | | | | | | |

| 2-BUTOXYETHANOL | | | | | | |
|-----------------------|--------------------|--|---|---|--|--|
| Threshold Limit Value | | | | | | |
| Country | TWA/8h | | STEL/15mi | n | Remarks / Observations | |
| | mg/m3 | ppm | mg/m3 | ppm | | |
| - | 97 | 20 | | | | |
| EU | 98 | 20 | 246 | 50 | SKIN | |
| USA | 240 | 50 | | | SKIN | |
| | Country - EU | Country TWA/8h mg/m3 - 97 EU 98 | Country TWA/8h mg/m3 ppm - 97 20 EU 98 20 | Malue STEL/15min Country TWA/8h STEL/15min mg/m3 ppm mg/m3 - 97 20 EU 98 20 246 | Malue STEL/15min Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm - 97 20 20 246 50 | YalueCountryTWA/8hSTEL/15minRemarks / Observationsmg/m3ppmmg/m3ppm-972020EU982024650SKIN |

| PROPAN-2-OL | | | | | | | |
|------------------------|---------|--------|-----|------------|-----|------------------------|--|
| Threshold Limit | Value | | | | | | |
| Туре | Country | TWA/8h | | STEL/15min | | Remarks / Observations | |
| | | mg/m3 | ppm | mg/m3 | ppm | | |
| TLV-ACGIH | - | 492 | 200 | 983 | 400 | | |
| OSHA | USA | 980 | 400 | | | | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

PROPAN-2-OL

Sampling methods: https://amcaw.ifa.dguv.de/substance/methoden/066-Propan-2-ol 2016.pdf

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (OSHA 29 CFR 1910.138). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing. EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133, CSA Standard CAN/CSA-Z94.3-92).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a



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8. Exposure controls/personal protection ... />>

NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134, CSA Standard Z94.4-02). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134, CSA Standard Z94.4-02.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties Appearance Colour Odour Odour threshold pH Melting point / freezing point Initial boiling point Boiling range Flash point Evaporation rate Flammability Lower explosive limit Upper explosive limit Upper explosive limit Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidising properties 9.2. Other information | > | Value liquid colourless typical not available 8 not available 100 °C (212 °F) not available 60 °C not available not available not available not available 17.64 not available 0.955 g/cm3 soluble in water not available not available | Information (140 °F) |
|--|---|---|-------------------------|
| VOC : | | 4,00 % - 38,20 | g/litre |

10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

10.5. Incompatible materials

Information not available



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10. Stability and reactivity ... / >>

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

PROPAN-2-OL LD50 (Oral): LD50 (Dermal): LC50 (Inhalation vapours):

4710 mg/kg Rat 12800 mg/kg Rat 72.6 mg/l/4h Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class Carcinogenicity Assessment: 67-63-0 PROPAN-2-OL IARC:3

111-76-2 2-BUTOXYETHANOL ACGIH:: A3 IARC:3

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

@EPY 11.7.2 - SDS 1004.14

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11. Toxicological information ... / >>

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

9640 mg/l/96h Pimephales promelas

13299 mg/l/48h Dapnia magna

12.1. Toxicity

PROPAN-2-OL

LC50 - for Fish

EC50 - for Crustacea

12.2. Persistence and degradability

PROPAN-2-OL Rapidly degradable

12.3. Bioaccumulative potential

PROPAN-2-OL

Partition coefficient: n-octanol/water

0.05

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Other adverse effects

Information not available

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number

not applicable

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14. Transport information ... / >>

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

15. Regulatory information

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

Substances subject to the Rotterdam Convention:

None

Canadian Regulatory Information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Safety Data Sheet according to WHMIS 2015.

16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| H225 | Highly flammable liquid and vapour. |
|------|-------------------------------------|
| H227 | Combustible liquid. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CLP: Regulation (EC) 1272/2008
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level



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16. Other information ... / >>

- PEL: Predicted exposure level
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 5
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- Hazard Products Regulation (HPR)
- WHMIS 2015
- ONTARIO R.R.O. 1990, Regulation 883 (version July 2016)
- IARC website
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the Canada's Hazardous Products Regulations (HPR) (WHMIS 2015), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.