

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name : **Queratrix Sb**
Product internal code : 4628
Recommended use of the product : Product exclusive for topical cosmetic formulations.
Company name : Farma Service Bioextract Ltda.
Company adress : Rua Dornas Filho, 165 - V. Paulista - São Paulo / SP - Brazil
Contact phone number : 55 11 5031-8860
Emergency phone number : 55 11 5031-8860
Email: : farmaser@terra.com.br

SECTION 2: HAZARDS IDENTIFICATION

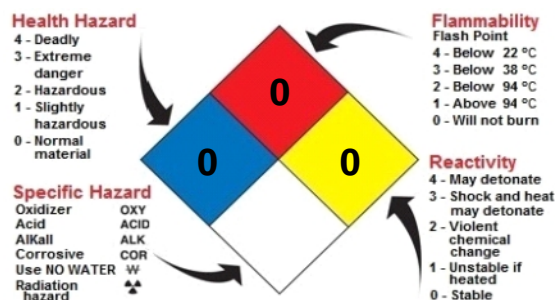
PRODUCT CLASSIFICATION

Main hazards : There is no reference.
Hazard classification for human health : There is no reference.
Hazard classification for environment : There is no reference.
Specific risks : There is no reference.
Physical hazard classification : Not classified.
Classification system adopted : ABNT NBR 14725:2012.

LABEL ELEMENTS

Hommel Diamond

Flammability: 0
 Health Harzard 0
 Reactivity: 0
 Specific Risk:



Hazard symbols (GHS)

Not applicable.

Pictogram for transport of dangerous goods : Not classified as hazardous for transport.

Signal word : Not applicable

Hazard statement : Not applicable.

Precautionary statements : Not applicable.

Other hazards which do not result in classification : There is no reference.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

Ingredients that contribute to the danger

None.

Impurities which contribute to the hazard

None.

SECTION 4: FIRST AID MEASURES

FIRST AID MEASURES

Inhalation

Not necessary in case of low occasional inhalation. If respiratory irritation occurs, remove individual to fresh air.

Skin contact

Wash skin with plenty of water and soap. Take off contaminated clothing.

Eye contact

Remove contact lenses, if present, and rinse cautiously with water for several minutes. Seek medical attention.

Ingestion

Not necessary in case of low accidental ingestion.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

There is no reference.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media

Chemical powder, alcohol-resistant foam, CO₂ and mist water.

Extinguishing media not recommended

Direct water stream.

Specific hazards arising from the product

In case of fire, smoke may contain, in addition to original material, carbon monoxide and/or carbon dioxide.

Protective measures for firefighters

Self-contained breathing apparatus and full protective clothing.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel

Use appropriate safety equipment. Do not allow unnecessary and unprotected people to be on site. Risk of falling.

For emergency responders

Self-contained breathing apparatus and full protective clothing.

ENVIRONMENTAL PRECAUTIONS

Prevent spills from entering storm sewers or drains and contact with soil.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

If possible, contain spilled material. Small spills, use absorbent material. Collect material in appropriate containers. In case of large spills, notify the Civil Defense and local Environmental Agency.

SECTION 7: HANDLING AND STORAGE

HANDLING

Recommendations for safe handling of the product

Handle with care to prevent spills and avoid slippery floor. Keep away from open fire. Use personal protective equipment indicated in Section 8 of this MSDS.

Incompatible substances or mixtures

Nitric acid, sulfuric acid, hydrochloric acid, strong oxidizing agents.

Advice to minimize the release of the substance or mixture to the environment

Certify the packaging is not leaking.

Appropriate and inappropriate hygiene measures

Do not eat, drink or smoke while handling product. Wash hands thoroughly before eating, drinking, smoking or using the toilet. Contaminated clothing should be changed and washed before reuse.

STORAGE

Appropriate technical measures

Keep the product in its original container in a cool, dry area, and away from direct sunlight.

Storage conditions that should be avoided

Temperatures above 35°C.

Appropriate packaging

Plastic drum.

Queratrix Sb**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION****CONTROL PARAMETERS / Occupational exposure limits**

Not available.

APPROPRIATE ENGINEERING CONTROLS

Emergency shower and eye-washer. Provide proper exhaustion system if it is necessary.

INDIVIDUAL PROTECTION MEASURES**Eye/face protection**

Protective glasses.

Skin protection

Appropriate protective clothes and gloves.

Respiratory protection

Respiratory mask.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Evaporation rate	: Not available.
Flammability	: See Section 2 (Hommel Diamond).
Vapour pressure	: Not available.
Vapour density	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Appearance	: fluid liquid, limpid to opalescent
Odor	: characteristic
Color (visual)	: amber to ocher
pH (25 °C)	: 3.5 to 5.5
Density (25 °C)	: (1.010 to 1.050) g/mL
Refractive index (25 °C)	: 1.330 to 1.370
Dry residue (105 °C, 4 h)	: minimum 7.0%
Microbial limits: bacteria	: maximum 100 CFU/g
Microbial limits: mold	: maximum 100 CFU/g
Flash point	: Not igneous
Boiling point	: 97° C
Solubility	: soluble in water, propylene glycol and glycerin

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SECTION 10: STABILITY AND REACTIVITY

Chemical stability

Stable under usual conditions of handling and storage, and if kept at room temperature, in the original closed packaging.

Reactivity

Not reactive.

Possibility of hazardous reactions

If handled and stored properly, the risk of dangerous reactions is remote.

Conditions to avoid

Strong oxidizing agents and handling temperatures above 35°C.

Incompatible materials or substances

Avoid contact with oxidizing materials.

Hazardous decomposition products

Burning may produce carbon monoxide and / or carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Not available.

Skin corrosion / irritation

Not available.

Serious eye damage / eye irritation

Not available.

Respiratory or skin sensitization

Not available.

Germ cell mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive / lactation toxicity

Not available.

Specific Target Organ Toxicity (single exposure)

Not available.

Specific Target Organ Toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Note: the data reported above were obtained through a literature review. No tests on animals were performed.

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Not available.

Other adverse effects

Not available.

NOTE: the data reported above were obtained through a literature review. No tests on animals were performed.

SECTION 13: DISPOSAL CONSIDERATIONS

Recommended methods for treatment and disposal:

Product / waste residues

Dispose of according to local, regional or federal regulations.

Contaminated packaging

The empty packaging may be incinerated or recycled. Consult and follow local regulations.

Personal protection equipment

As indicated in Section 8.

SECTION 14: TRANSPORT INFORMATION

NATIONAL AND INTERNATIONAL REGULATIONS

Land

Decreto 96.044:1988 - Decree nº 96.044: 1988 (The Regulation for the Road Transport of Dangerous Products and the other steps Approves).

ANTT (Agencia Nacional de Transporte Terrestre) - Resolutions ANTT nº 420:2004, 701:2004, 1644:2006, 2657:98, 2975:08 and 3383:2010

Waterways

DPC (Diretoria de Portos e Costas - Transporte em Águas Brasileiras) - Direction of Ports and Coasts - Transport in Brazilian Waters

NORMAM (Normas de Autoridade Marítima) - Norms of Maritime Authorities

. NORMAM 01/DPC (Embarcações Empregadas na Navegação em Mar Aberto) - Boats Used in the Navigation in Open Sea

. NORMAM 02/DPC (Embarcações Empregadas na Navegação Interior) - Boats Used in the Inland Navigation

IMO - International Maritime Organization

IMDG Code - International Maritime Dangerous Goods Code

Air

DAC (Departamento de Aviação Civil: IAC 153-1001. Instrução de Aviação Civil - Normas para o transporte de artigos perigosos em aeronaves civis) - Department of Civil Aviation: IAC 153-1001. Instruction of Civil Aviation - Norms for the dangerous article transport in civil aircraft.

IATA - International Air Transport Association

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CLASSIFICATION OF DANGEROUS GOODS FOR TRANSPORTION

UN number

Not classified as hazardous for transport.

UN proper shipping name

Not classified as hazardous for transport.

Transport hazard class

Not classified as hazardous for transport.

Risk number

Not classified as hazardous for transport.

Packing group

Not classified as hazardous for transport.

SECTION 15: REGULATORY INFORMATION

Federal Decree No. 2657:1998 - Announces Convention No 170 ILO concerning security in the Use of Chemicals at Work.

NBR 14725:2012 - Chemicals - Safety, health and environment.

Queratrix Sb**SECTION 16: OTHER INFORMATION**

Farma Service Bioextract Ltda recommends the user to read carefully this Material Safety Data Sheet (MSDS) in order to know the hazards associated to the product. The MSDS presents safety information in product handling. The information herein is given in good faith, without thereby incurring any liability, express or implied. It is the user's responsibility to ensure that their activities comply with federal, state, provincial or local regulations. The information presented here pertains only to the product in its original container. It is obligation of the user to use or determine that the product is handled safely.

References:

- (1) International Cosmetic Ingredient Dictionary and Handbook.
- (2) Site Cosing, Europe.

Abbreviations:

ABNT (Associação Brasileira de Normas Técnicas) – Brazilian Association of Technical Norms
ACGIH - American Conference of Governmental Industrial Hygienists
ANTT (Agência Nacional de Transportes Terrestres) – National Agency of Land Transport
CAS: Chemical Abstract Service
DAC (Departamento de Aviação Civil) - Civil Aviation Department
DL0 – It is the maximum dosage tested that does not cause death in a test population.
DL50 (Dose Letal Mediana): Lethal Dose 50% - It is the necessary dosage of a determined substance to kill 50% of the testing population.
DPC (Diretoria de Portos e Costas) – Directorate of Ports and Coasts
EINECS - European Inventory of Existing Chemical Substances
GHS - Global Harmonized System
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods Code
IMO - International Maritime Organization
INCI - International Nomenclature of Cosmetic Ingredients
LD0 (Lethal Dose 0) – It is the maximum dosage tested that does not cause death in a test population.
LD50 (Lethal Dose 50%) - It is the necessary dosage of a determined substance to kill 50% of the testing population.
MTE (Ministério do Trabalho e Emprego) – Ministry of Work and Employment
NBR (Norma Brasileira) - Brazilian Norm
NIOSH - National Institute for Occupational Safety and Health
NORMAM (Normas de Autoridade Marítima) – Maritime Authority Norms
NR (Normas Regulamentadoras do Ministério do Trabalho e Emprego) – Regulatory Norms of Ministry of Work and Employment
OIT (Organização Internacional do Trabalho) – International Work Organization
ONU (Organização das Nações Unidas) - United Nations Organization
OSHA - Occupational Safety & Health Administration
ppb - Parts per billion
ppm - Parts per million